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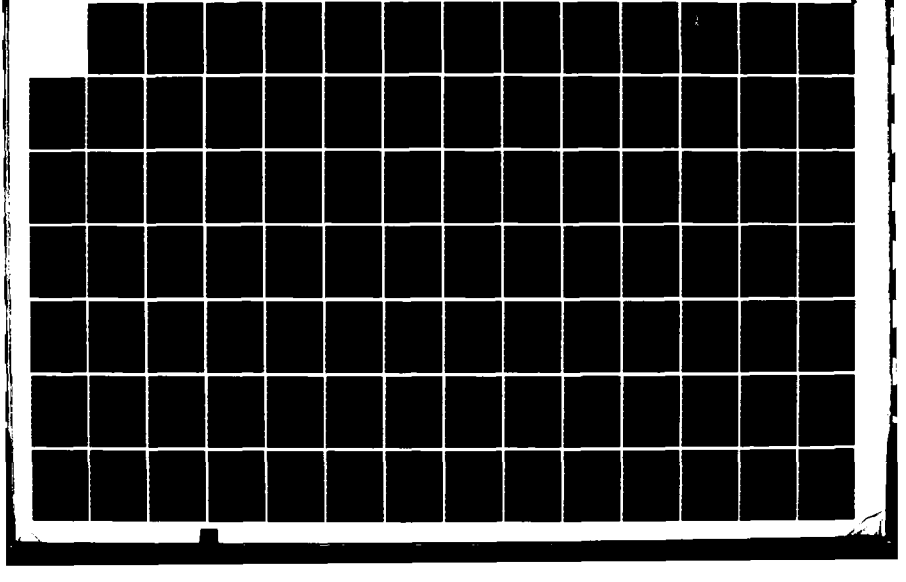

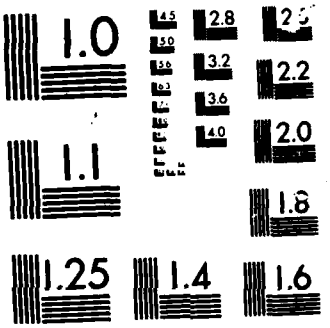

MICROCOPY RESOLUTION TEST CHART

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The objective of this report is to investigate the possible earthquake response of a tripod-type ocean structure for the East Coast Air Combat Maneuvering Range offshore Kitty Hawk, North Carolina.
The structure considered herein, a three-pile structure with (Con't)

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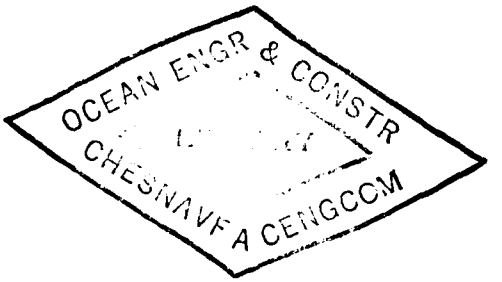

NATURAL FREQUENCY & EARTHQUAKE ANALYSIS
EAST COAST AIR COMBAT MANEUVERING RANGE
OFFSHORE KITTY HAWK, NORTH CAROLINA

CONTRACT NO. N62477-76-C-0179
MODIFICATION NO. P0001

Report No. 27-771-99

Prepared for

NAVAL FACILITIES ENGINEERING COMMAND
DEPARTMENT OF THE NAVY
CHESAPEAKE DIVISION

By

CREST ENGINEERING, INC.
TULSA, OKLAHOMA

September 1976

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SECTION 1
INTRODUCTION

1.1 INTRODUCTION

The objective of this report is to investigate the possible earthquake response of a tripod-type ocean structure for the East Coast Air Combat Maneuvering Range offshore Kitty Hawk, North Carolina.

The structure considered herein, a three-pile structure with equilaterally spaced jacket legs, is located in a water depth (MLW) of 105 feet. The anchoring of the structure is achieved by driving piles through the jacket legs into the seabed. A superstructure, consisting of an upper deck, an equipment deck, columns and stairs, is attached to the piling above the jacket.

1.2 ENGINEERING DATA

Engineering data which serve as the basis for the earthquake analysis are listed as follows:

A. Environmental Conditions

MLW Depth	105 feet
Earthquake Zoning	Zone 1
Effective Horizontal Ground Acceleration	G=0.05*

(where G=Ratio of effective horizontal acceleration to gravitional acceleration)

B. Live Loads on Structure

Equipment Deck	150 psf
Upper Deck	100 psf

C. Major Structural Dimensions

True Batter of Piling & Jacket Leg	1:6
Width at Jacket Base (Mudline)	64 feet
Width at Jacket Top (Work Point Level)	29 feet
Pile Out Side Diameter	42 inches
Jacket Leg Out Side Diameter	46 inches
Upper Deck Area	362.5 sq. ft.
Equipment Deck Area	591.5 sq. ft.
Height of Structure (From mudline to upper deck)	180 feet

*See Reference 5

1.3 PROCEDURES OF ANALYSIS

The analytical procedures presented in this report consist of two major steps: (1) Natural Frequency Analysis and (2) Space Frame Analysis due to Earthquake Loads. ICES STRUDL-II computer program was employed to perform the analyses in both steps.

Natural Frequency Analysis:

A sequence of data preparation is presented in Section 2 for the application of ICES STRUDL-II dynamic analysis capabilities. Brief descriptions of the data processing procedures are summarized as follows:

(1) Code the structural joint coordinates and member incidences;

(2) Calculate the member density which consists of the structural member mass, the mass of the entrapped water and the virtual mass;

(3) Calculate joint loads (by STRUDL-II program) and rearrange new joint order list to produce improved banding.

(4) Compute an approximate natural frequency estimate by means of Rayleigh's quotient.

Space Frame Analysis due to Earthquake Loads:

Section 3 presents the calculation of base shear due to earthquake and the distribution of the base shear

to each loading joint. The distributed joint loads are then treated as the structural loadings which in turn are applied to the idealized space frame structure. The space frame analysis then follows.

1.4 SUMMARY

Some significant results from the analyses are summarized as follows:

Vibrating in the X-Direction:

Natural Frequency	1.49 Hz.
Period	0.67 sec.
Maximum Base Shear	60.67 Kips

Vibrating in the Y-Direction:

Natural Frequency	1.45 Hz.
Period	0.69 sec.
Maximum Base Shear	60.76 Kips

1.5 PERSONNEL RESUMES

The personnel whose resumes follow were actively engaged in this project.

CREST OFFSHORE, INC.

Chingmiin (Charlie) Chern

Senior Engineer

University	Degree	Year
National Taiwan University	Bachelor of Science Civil Engineering	1961
North Dakota State University	Master of Science Civil Engineering	1966
Lehigh University	Ph. D. Civil Engineering	1969
Tulsa University	Graduate Study in Business Administration-Management	1974

Societies, Licenses, *and* Other Activities:

Member American Society of Civil Engineers
Member International Association of Structural and Bridge Engineers
Member American Society of Engineering Education
Registered Professional Engineer in Oklahoma

Experience:

1973 to Present

Crest Offshore, Inc.

Senior Civil Engineer

Engaged in the feasibility studies, structural analysis and design of offshore structures, equipment supports and other various types of petroleum related civil engineering works. Assignments include:

... Evaluation of engineering designs from other agencies.
... Analysis and design of offshore structures for oil industry.
... Analysis and design of supports and foundations for onshore refinery facilities.
... Development of a sequence of computer programs for the analysis of offshore structures.

SECTION 2

NATURAL FREQUENCY ANALYSIS

2.1 INTRODUCTION

The natural frequencies calculated hereinafter are for the tripod-type ocean structure in the water depth (MLW) 105 feet. The dynamic analysis capabilities of ICES STRUDL-II were employed to perform the computation of the lumped joint loads and hence the natural frequencies of the structure in both X-and Y-direction.

The mass of the structure consists of the following three components:

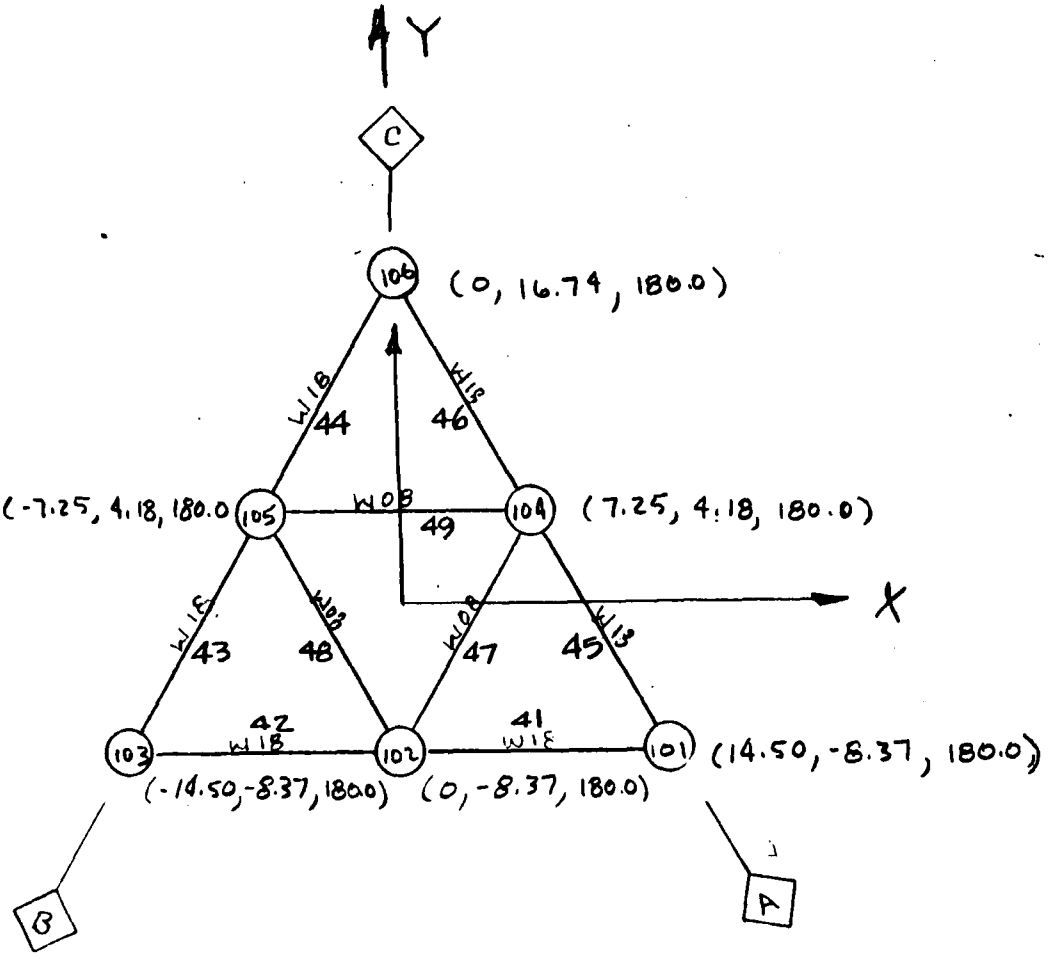
(1) Mass of structural members;

(2) Mass of entrapped water; and

(3) Virtual mass of water.

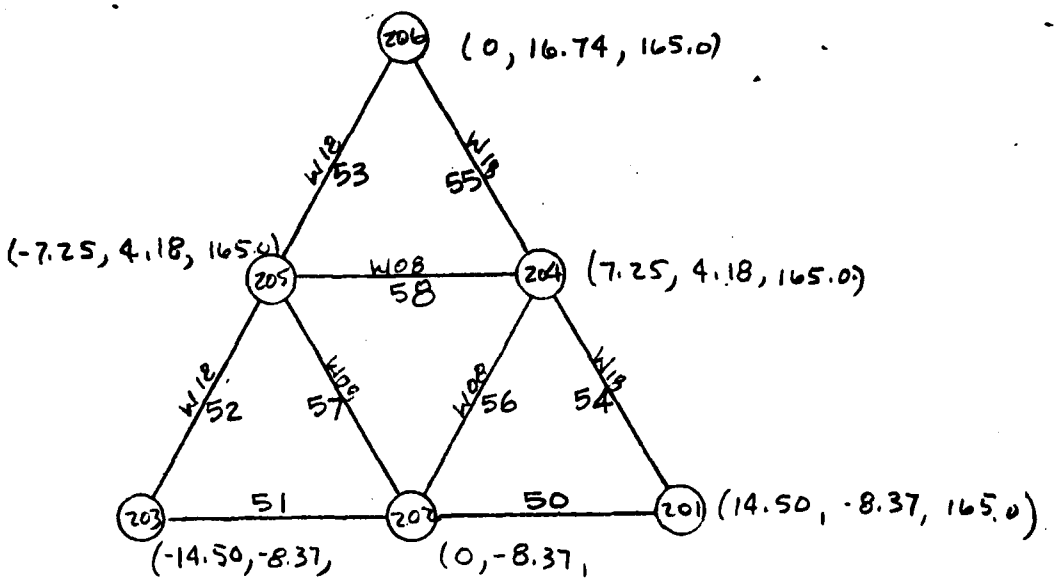
Since the frequency is computed by means of Rayleigh's approximation, no damping coefficient for the vibrating system has been specified in the calculation.

2.2 JOINT COORDINATES AND MEMBER INCIDENCES



Plan at Elev. (+) 75'-0

Upper Deck



Plan at Elev. (+) 60'-0

Equipment Deck

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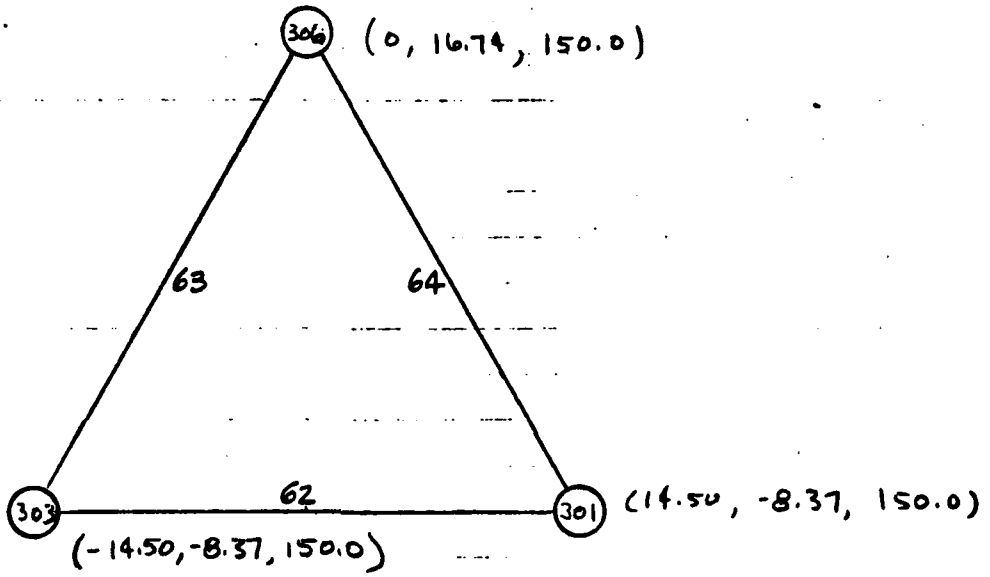
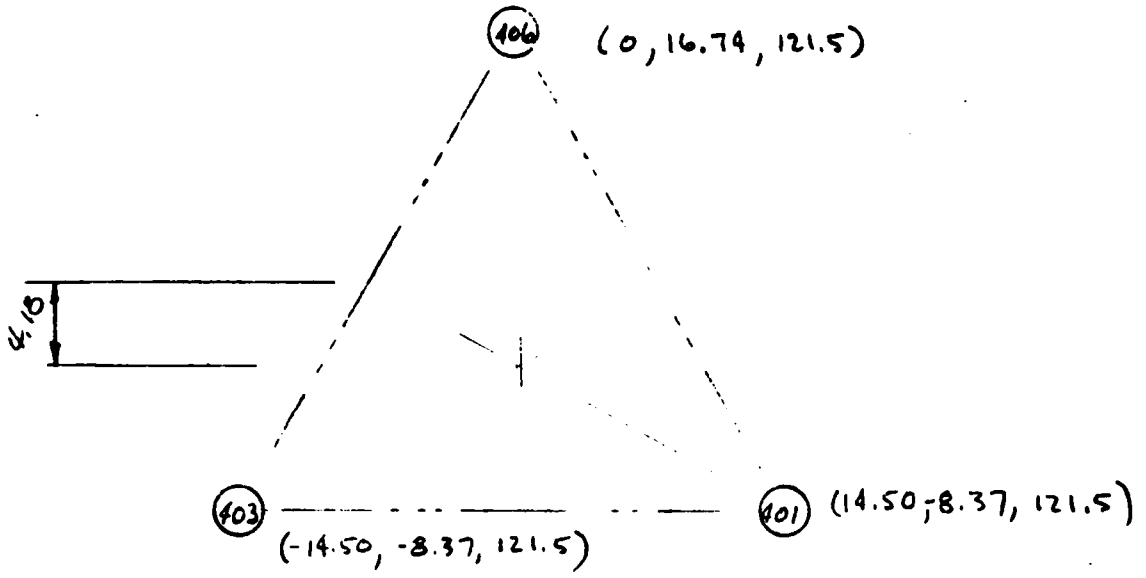
Date 6-23-76 Job No 27-771-99 Calculation Natural Frequency Calculation



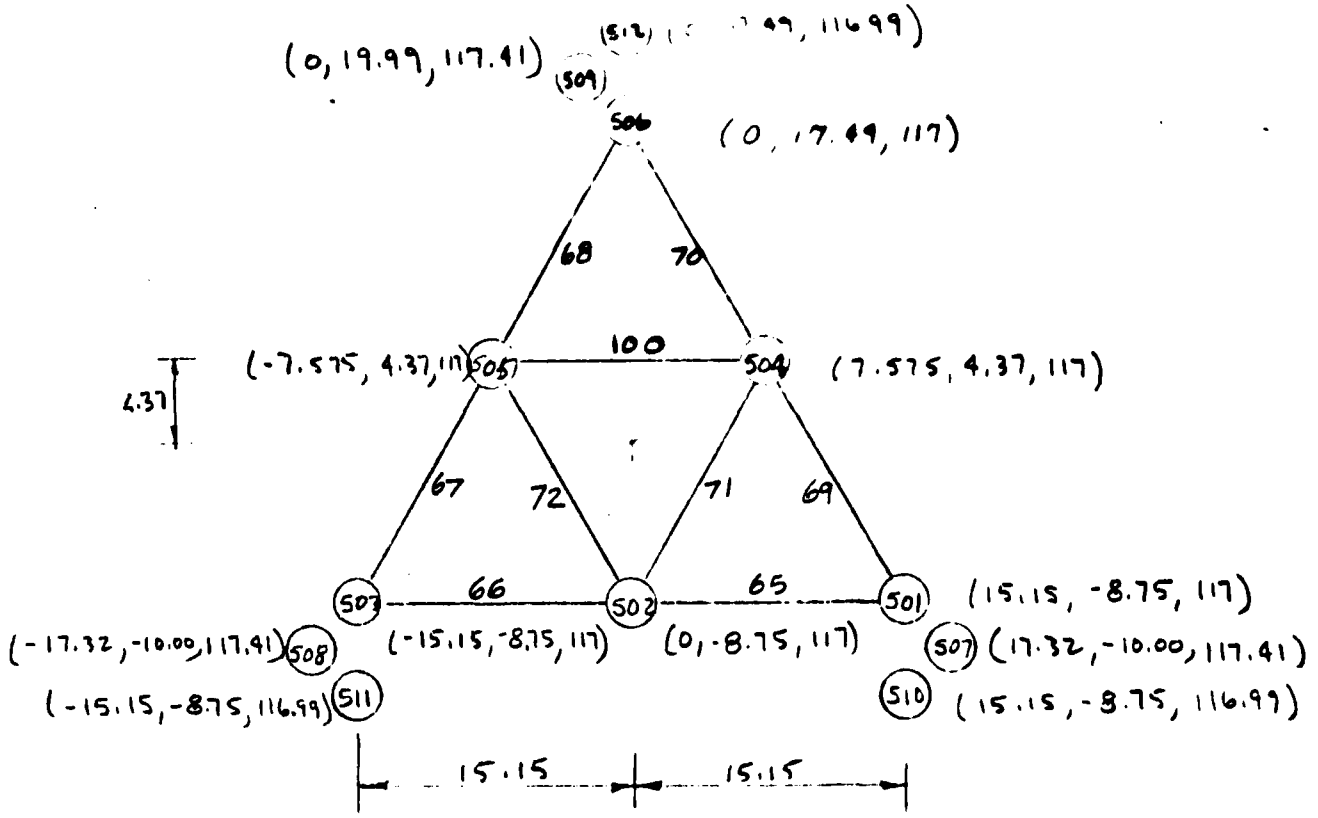
Plan at Elev. (+) 45'-0



Plan at Elev. (+) 16'-6

Work Point

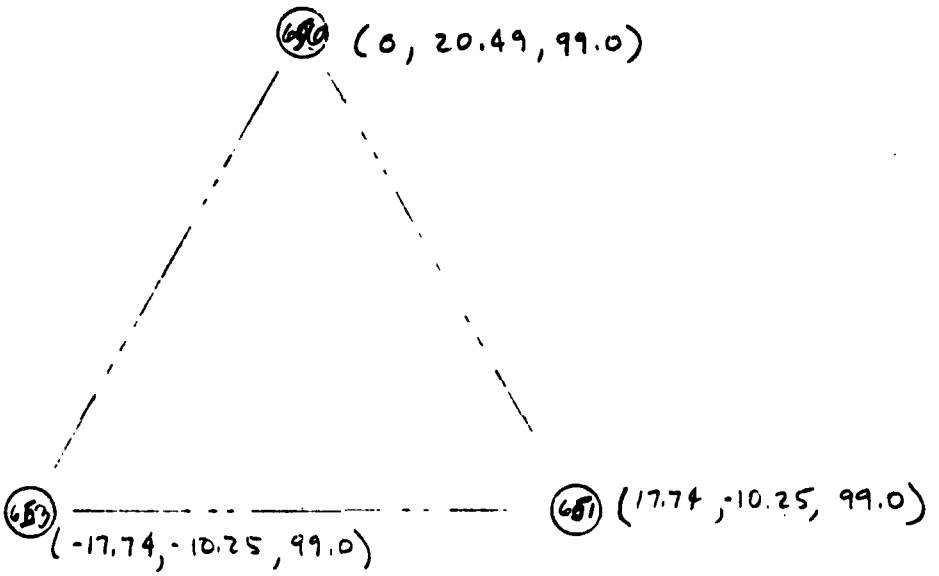
By C. Chern Client U.S. NAVY Subject Natural Frequency & Earthquake
Date 6-22-76 Job No 27-771.99 Calculation Natural Frequency Calculation



Elev. of Elev. (+) 12'-0

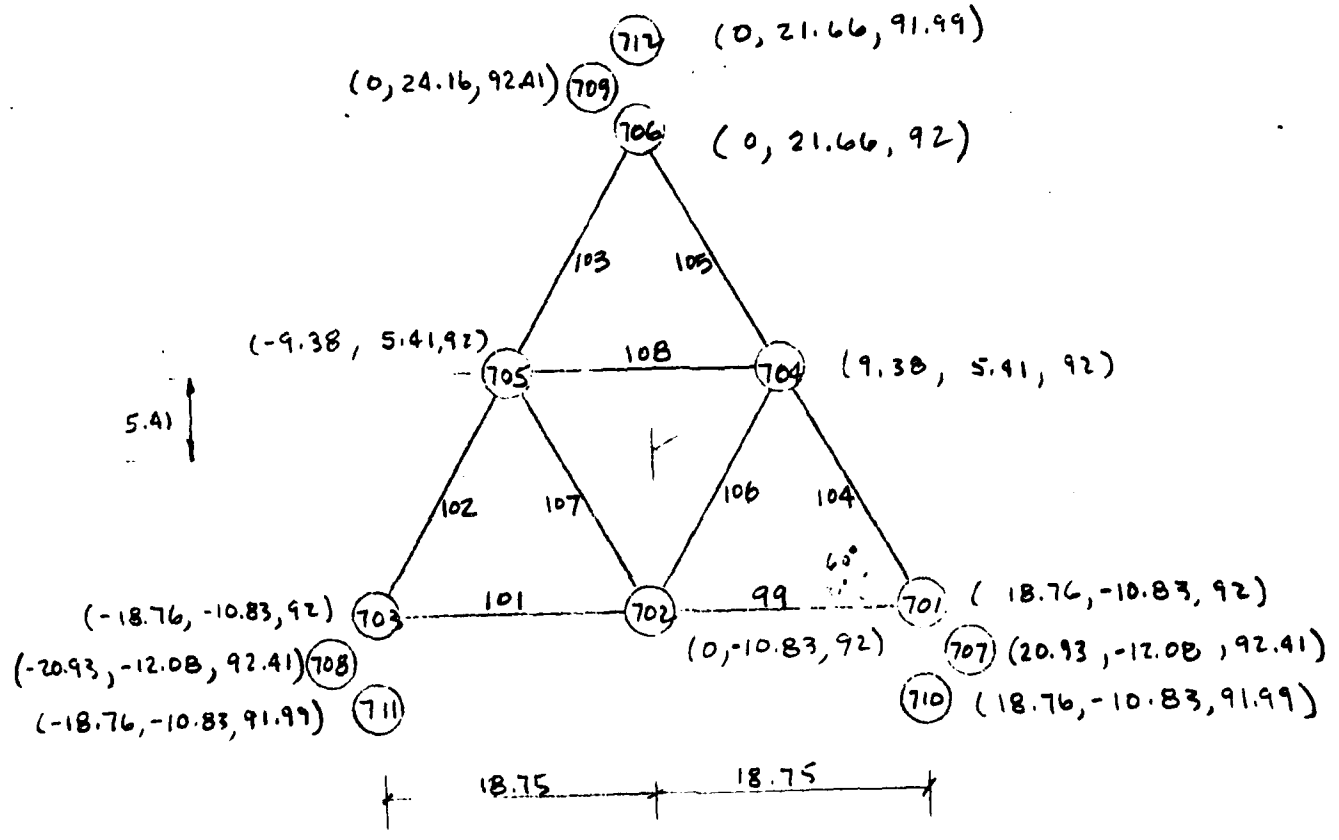
By C. Cherr Client U.S. NAVY Subject Natural Frequency & Earthquake

Date 6-22-76 Job No. 27-771-99 Calculation Natural Frequency Calculation

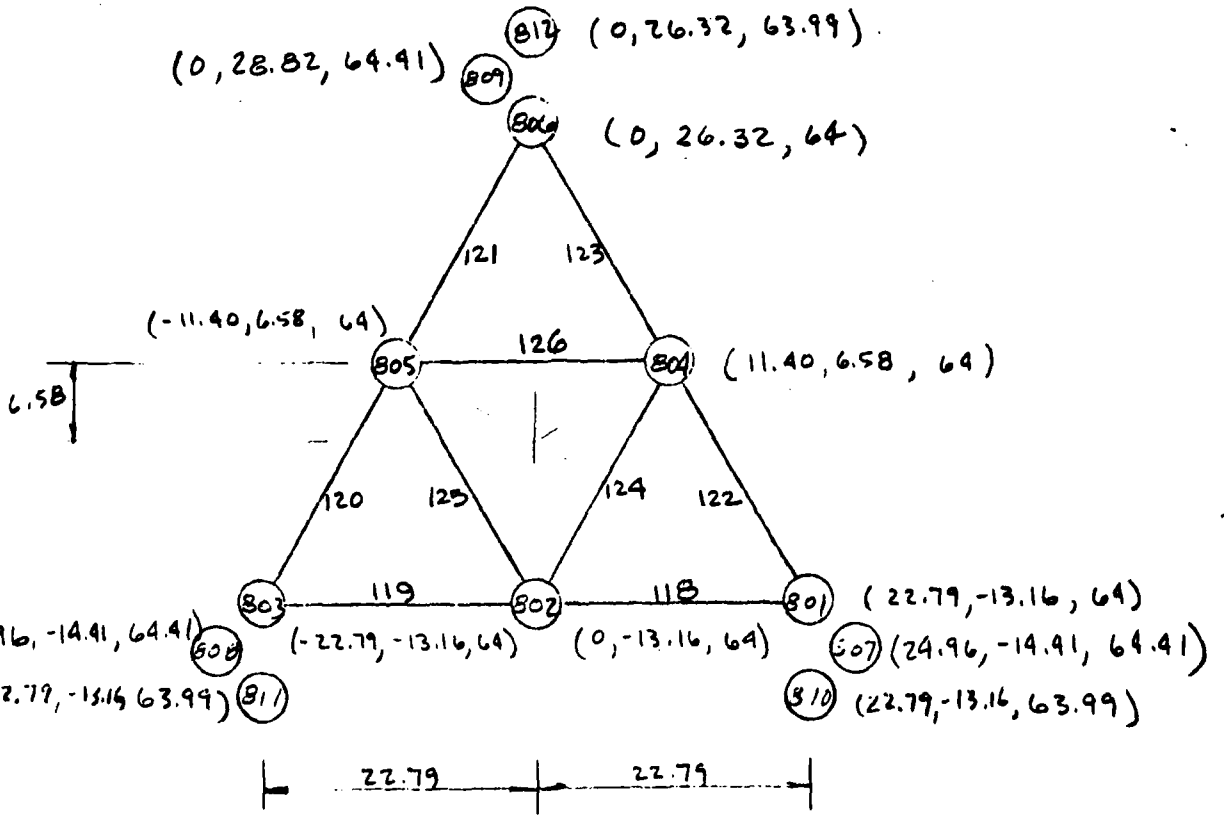


Plan at Elev. 6'-0

By C. Chern Client U.S. NAVY Subject Natural Frequency & Earthquake
Date 6-22-76 Job No 27-771-99 Calculation Natural Frequency Calculation

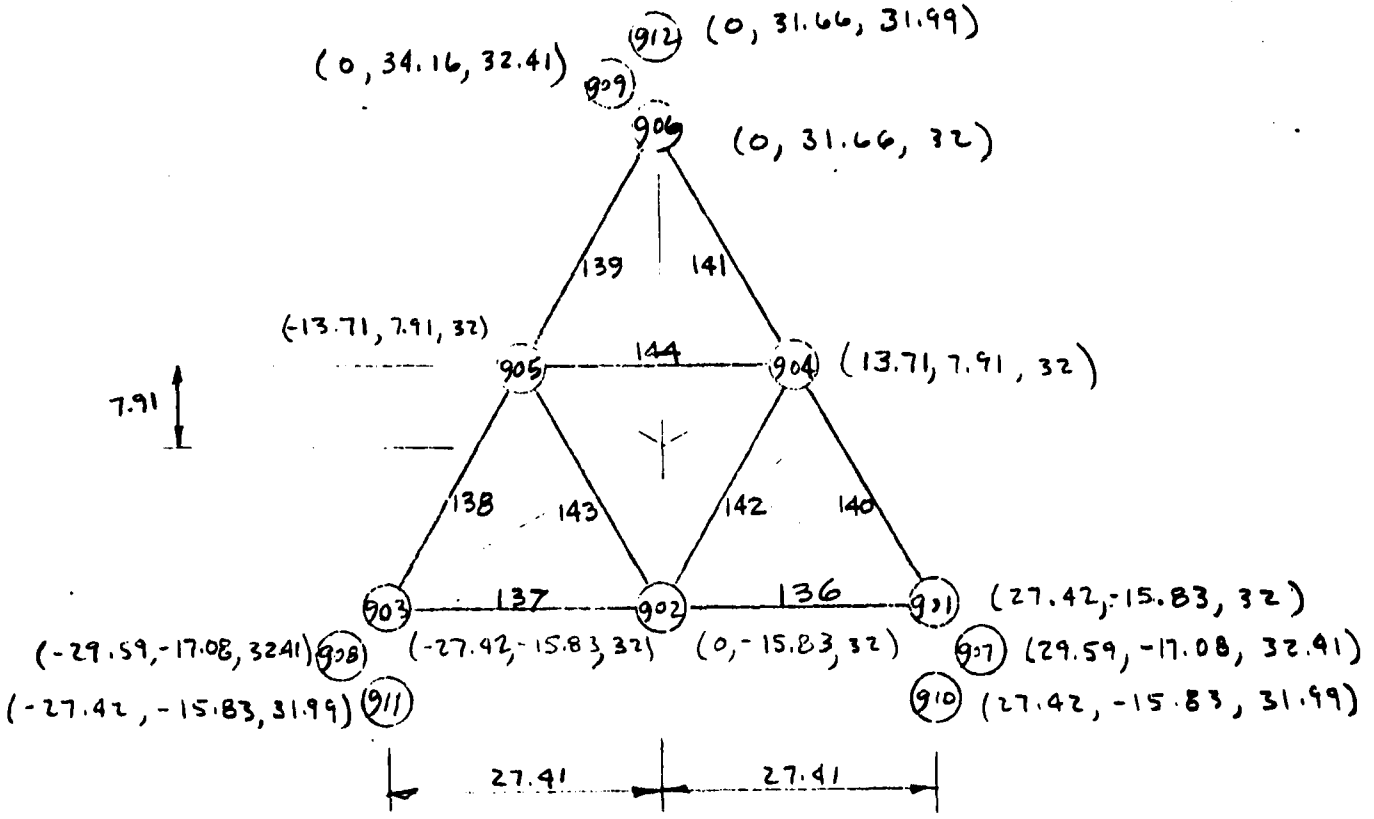


(-) 13'-0



Plan at Elev. (-) 41'-0

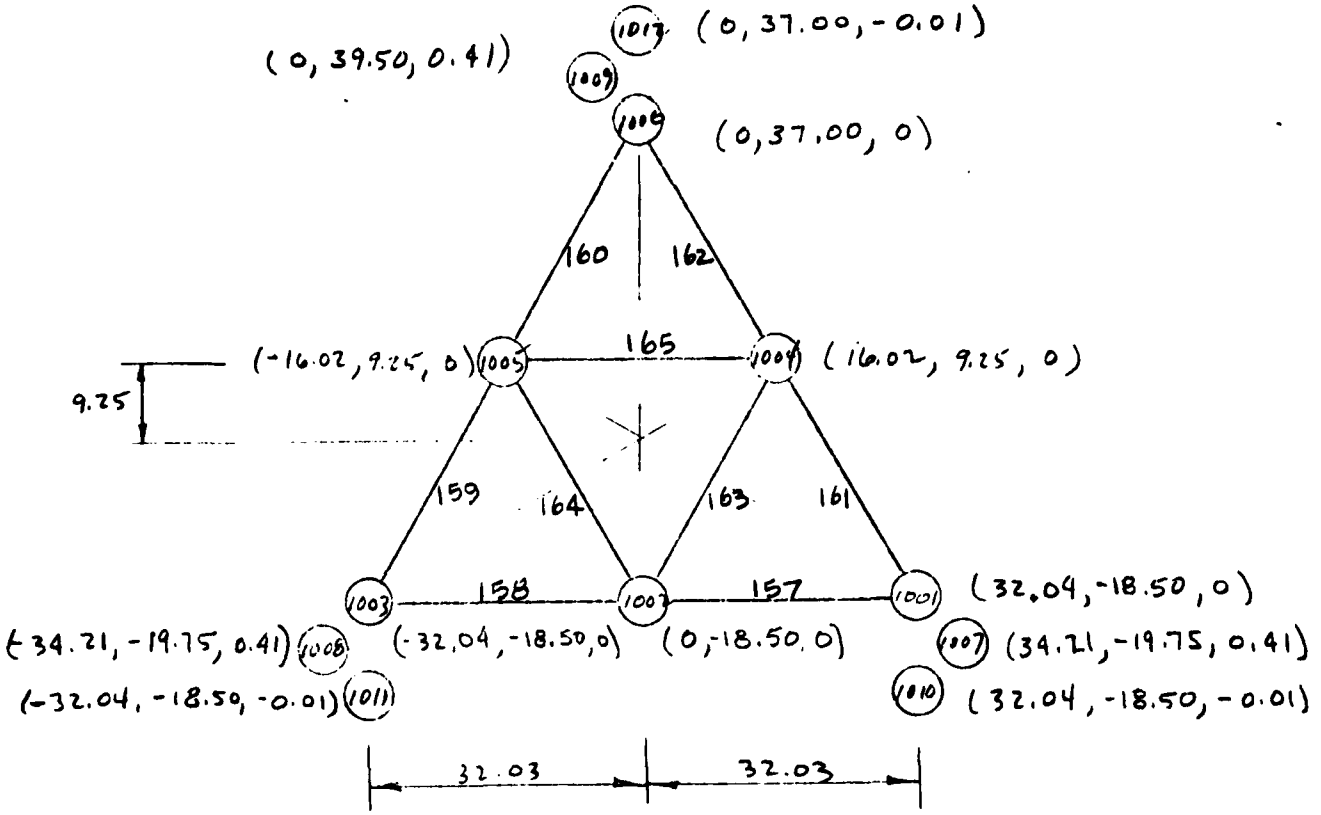
By C. Cherry Date U.S. NAVY Subject Natural Frequency & Earthquake
Date 6-22-76 Job No. 27-711-99 Calculation Natural Frequency Calculation



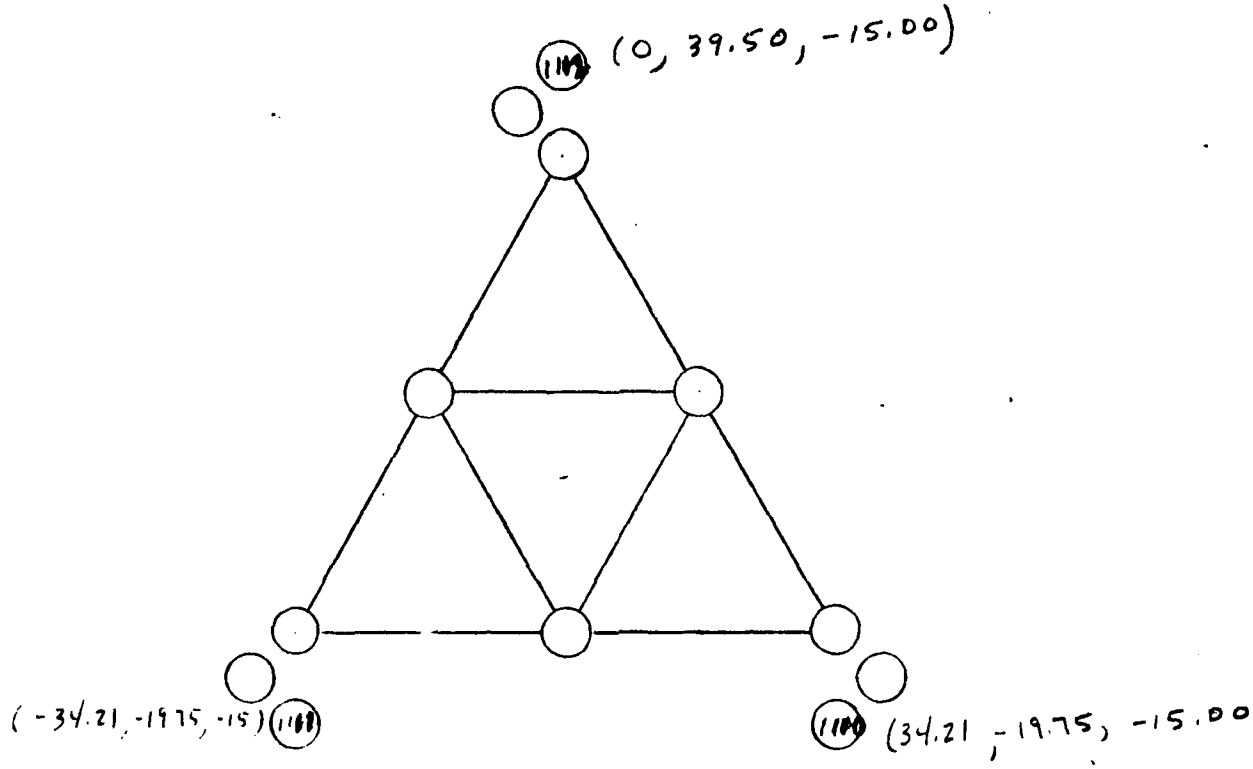
Plan at Elev. @ 73'-0

Subject: Natural Frequency & Earthquake

Date 6-2[illegible]-16 Job No. 27-771-99 Calculation Natural Frequency Analysis



105'-0



Plan at Elev. (+) 120'-0

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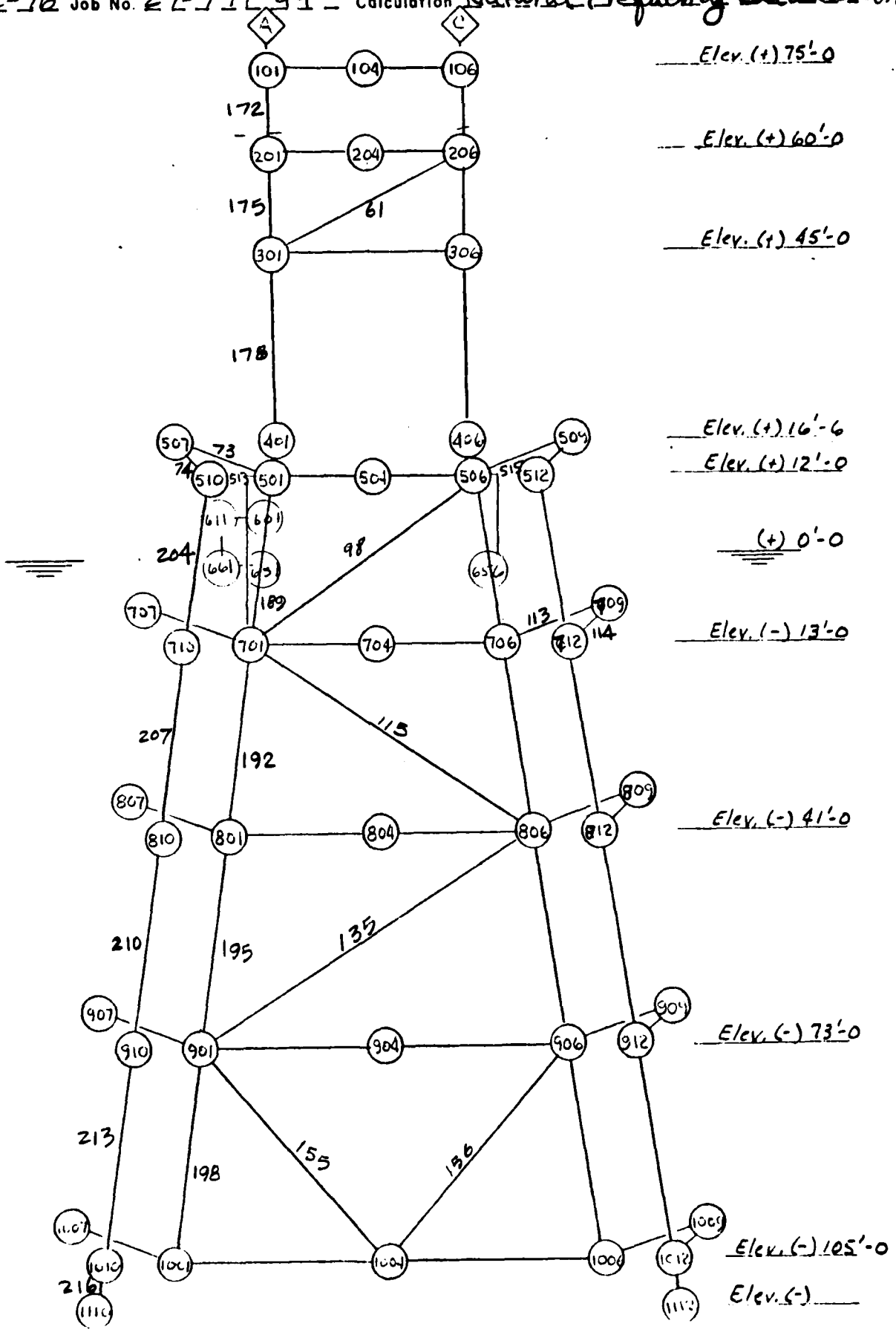
Sheet 2.14 of 33

By C. Chern Client U.S. NAVY Subject Natural Frequency & Earthquake

Date 6-22-76 Job No. 27-771-99 Calculation Natural Frequency Calculation

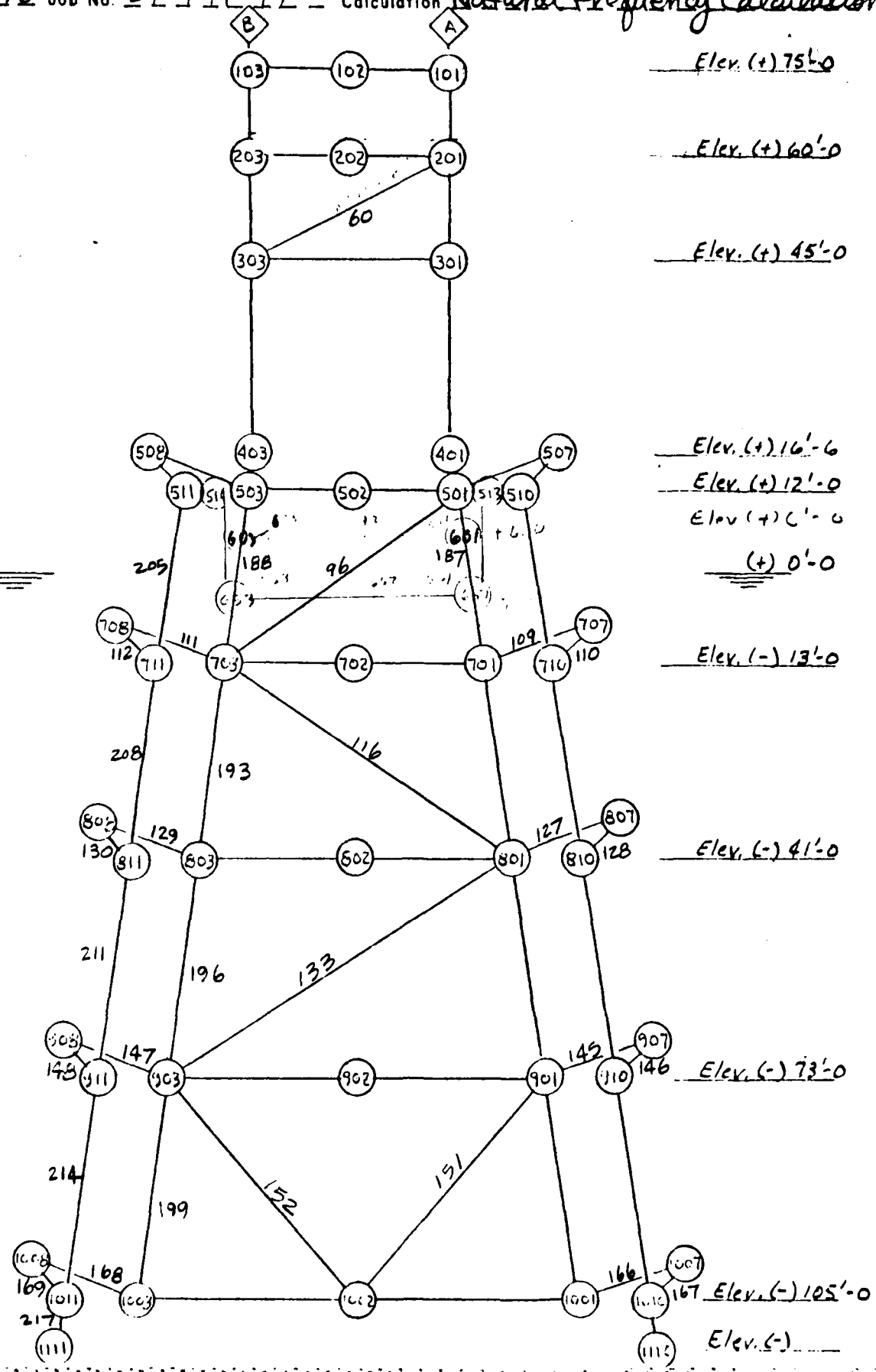


CREST OFFSHORE, INC.

Sheet 2-12 of 37

By C. Chen Client U.S. Navy Subject Natural Frequency & Earthquake

Date 6-22-76 Job No. 27-771-99 Calculation Natural Frequency Calculation



Elev. (+) 75'-0

Elev. (+) 60'-0

Elev. (+) 45'-0

Elev. (+) 16'-6

Elev. (+) 12'-0

Elev (+) 6'-0

(+) 0'-0

Elev. (-) 13'-0

Elev. (-) 41'-0

Elev. (-) 73'-0

Elev. (-) 105'-0

Elev. (-) ___

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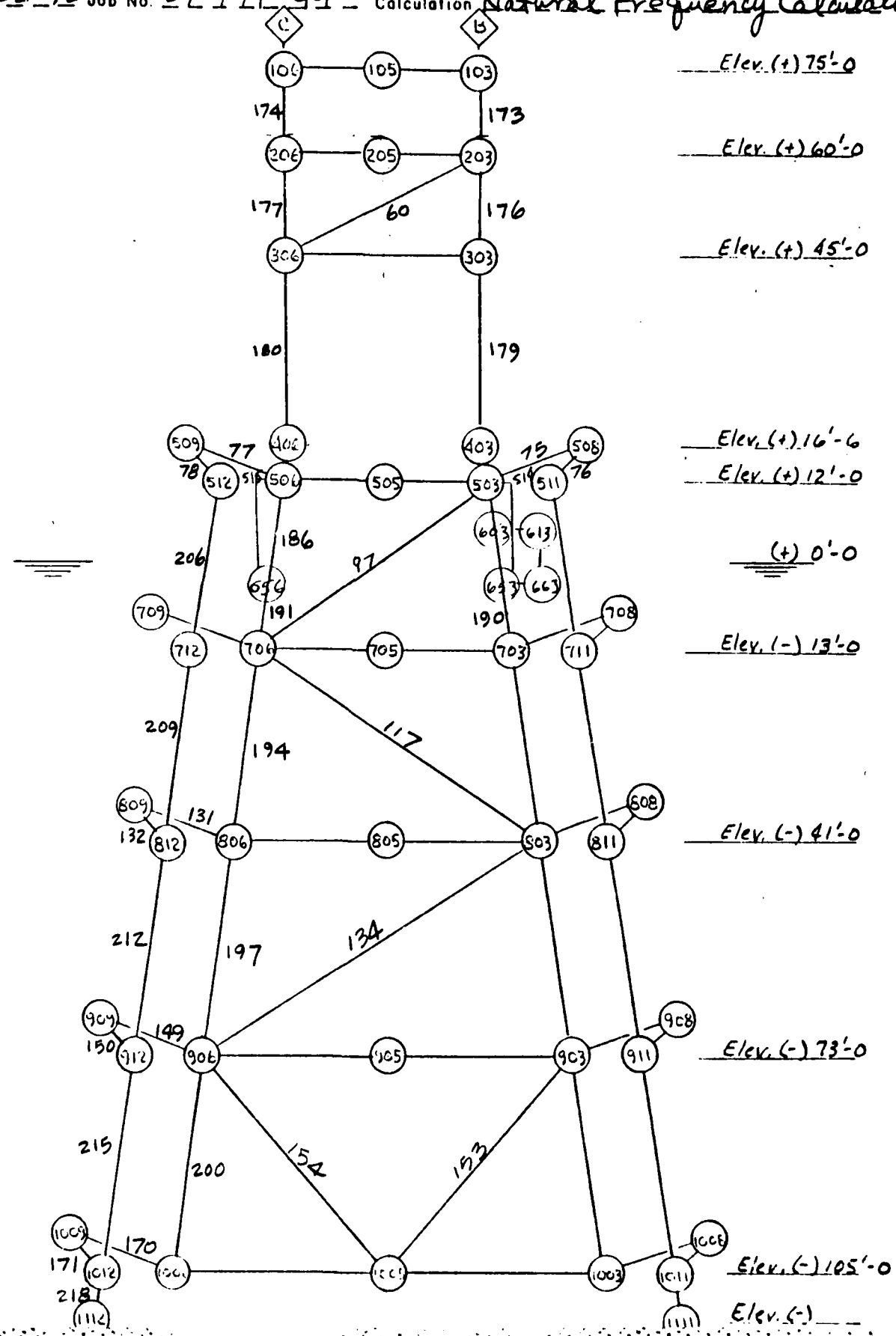
Sheet 2-16 of 33

By C. Chern Client U.S. NAVY Subject Natural Frequency & Earthquake

Date 6-22-76 Job No. 27-771-99 Calculation Natural Frequency Calculation



2.3 MEMBER SIZES

MEMBER SIZES	MEMBER NUMBER
W18x50	41 TΦ 46, 50 TΦ 55
W8x24	47 TΦ 49, 56 TΦ 58
12¾"Φx.5"WT	59 TΦ 64, 71, 72, 79 TΦ 81, 99 TΦ 105
12¾"Φx.375"WT	106 TΦ 108
14"Φx.375" WT	124 TΦ 126, 142 TΦ 144, 163 TΦ 165
8⅝"Φx.5"WT	89 TΦ 92
10¾"Φx.844"WT	85 TΦ 88, 93 TΦ 95
16"Φx.5" WT	65 TΦ 70, 151 TΦ 156
18"Φx.5" WT	118 TΦ 123, 136 TΦ 141, 157 TΦ 162, 82 TΦ 84
20"Φx.625"WT	96 TΦ 98, 115 TΦ 117, 133 TΦ 135
30"Φx1.0"WT	175 TΦ 180
42"Φx1.75"WT	201 TΦ 206, 213 TΦ 215
42"Φx 2.0"WT	207 TΦ 212
46"Φx1.0" WT	181 TΦ 191
46"Φx.5" WT	192 TΦ 200

SHIM PLATES (WISHBONE MEMBERS)

5" x 10" PL

DUMY PILES

36"Φ x 1.25" WT

2.4 MEMBER DENSITY

1. SUPERSTRUCTURAL MEMBERS

DENSITY OF ALL MEMBERS = 0.284 #/cu.in. (Steel Wt. Only)

2. WISHBONE MEMBERS** Fictitious members, no member density is required in the analysis.**

ACTUAL SHIM SIZE = 10" x 5" x 1" (each).

FICTIOUS WISHBONE MEMBER = 10" x 5" x 30.5"

Jt. 701 Tø Jt. 707

$$\text{Length} = \sqrt{(20.93-18.76)^2 + (-12.08+10.83)^2 + (92.41-92.0)^2}$$

$$= \sqrt{4.71 + 1.56 + 0.17}$$

$$= 2.54 \text{ FT}$$

$$= 30.5 \text{ in.}$$

Both sides of JKT Legs

$$\text{DENSITY OF WISHBONE MEMBERS} = \frac{.284 \times 2}{30.5} = .019 \ \#/\text{cu.in.}$$

3. PILINGS

$$\text{DENSITY OF PILING} = \frac{\text{STEEL WT.} + 1.0 \times (\text{ENTRAPPED WATER WT})}{\text{STEEL CROSS-SECTIONAL AREA}}$$

42" Ø.D. x 1.75" WT

$$\gamma_{1.75} = \frac{(752.28 + 504.47)/12}{221.29} = 0.473 \ \#/\text{cu.in.}$$

42" Ø.D. x 2.00" WT

$$\gamma_{2.0} = \frac{(854.41 + 491.45)/12}{251.33} = 0.446 \ \#/\text{cu. in.}$$

4. JACKET LEGS

$$\text{DENSITY OF JACKET LEGS} = \frac{\text{STEEL WT} + 1.0 \times (\text{VIRTUAL MASS WT})}{\text{STEEL CROSS-SECTIONAL AREA}}$$

46" Ø.D. x 1.00" WT

$$\gamma_{1.0} = \frac{(480.61 + 658.90)/12}{141.37} = 0.672 \ \#/\text{cu. in.}$$

46" Ø.D. x .50" WT

$$\gamma_{0.5} = \frac{(242.97 + 689.19)/12}{71.47} = 1.087 \ \#/\text{cu. in.}$$

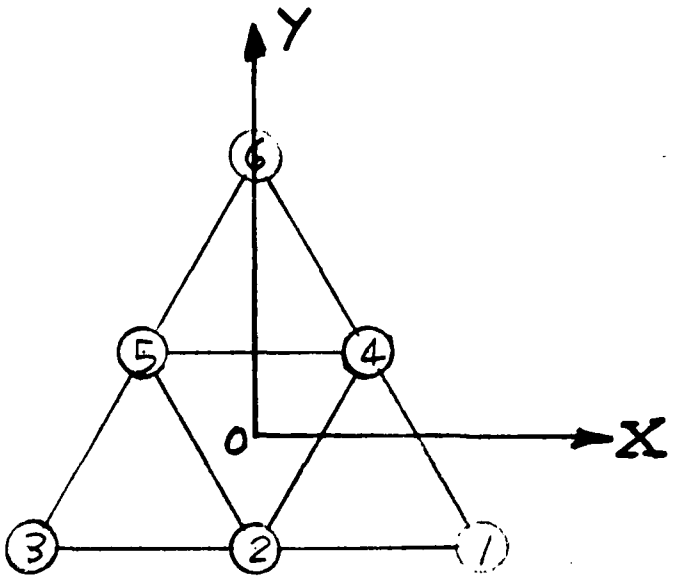
5. BRACINGS

$$\text{DENSITY OF BRACING} = \frac{\text{STEEL WT} + 0.6 \times (\text{VIRTUAL MASS WT}) \times \frac{L_p}{L}}{\text{STEEL CROSS-SECTIONAL AREA}}$$

L_p = PROJECTED MEMBER LENGTH IN THE DIRECTION PERPENDICULAR TO VIBRATION

L = MEMBER LENGTH

(5-a) HORIZONTAL BRACINGS



(i) VIBRATION IN THE DIRECTION OF Y

MEMBER 1-2, 2-3, 4-5 ; $L_p/L = 1.0$

OTHERS $L_p/L = \cos 60° = 0.5$

ELEVATION (+) 12'-0" Considered as Max. Water level for dynamic analysis

MEMBER 65, 66 (16" Ø.D x .5" WT)

$$\gamma = \frac{(82.77 + 0.6 \times 76.58)/12}{24.35} = 0.441 \ \#/\text{cu. in}$$

MEMBER 100 (12¾" Ø.D x .5" WT)

$$\gamma = \frac{(65.42 + 0.6 \times 47)/12}{19.24} = 0.405 \ \#/\text{cu. in.}$$

MEMBER 67, 68, 69, 70 (16"ϕ.D.x.5" WT)

$$\gamma = \frac{(82.77 + 0.6 \times 76.58 \times 0.5)/12}{24.35} = 0.362 \ \#/\text{cu. in.}$$

MEMBER 71, 72 (12¾" Ø.D. x .5" WT)

$$\gamma = \frac{(65.42 + 0.6 \times 47 \times .5)/12}{19.24} = 0.344 \ \#/\text{cu. in.}$$

ELEVATION (-) 13'-0"

MEMBER 99, 101 (12¾"Ø.D.x.5"WT)

$$\gamma = \frac{(65.42 + 0.6 \times 47)/12}{19.24} = 0.405 \ \#/\text{cu. in.}$$

MEMBER 108 (12¾"ϕ.D.x.375" WT)

$$\gamma = \frac{(49.56 + 0.6 \times 49)/12}{14.58} = 0.451 \ \#/\text{cu. in.}$$

MEMBER 102, 103, 104, 105 (12¾"ϕ.D.x.5" WT)

$$\gamma = \frac{(65.42 + 0.6 \times 47 \times .5)/12}{19.24} = 0.344 \ \#/\text{cu. in.}$$

MEMBER 106, 107 (12¾" ϕ.D. x.375" WT)

$$\gamma = \frac{(49.56 + 0.6 \times 49 \times .5)/12}{14.58} = 0.367 \ \#/\text{cu. in.}$$

ELEVATION (-) 41'-0"

MEMBER 118, 119 (18"Ø.D.x.5" WT)

$$\gamma = \frac{(93.45 + 0.6 \times 98.36)/12}{27.49} = 0.462 \ \#/\text{cu. in.}$$

MEMBER 126 (14"Ø.Dx.375"WT)

$$\gamma = \frac{(54.57 + 0.6 \times 59.75)/12}{16.05} = 0.469 \ \#/\text{cu. in.}$$

MEMBER 120, 121, 122, 123 (18"Ø.D.X.5" WT)

$$\gamma = \frac{(93.45 + 0.6 \times 98.36 \times .5)/12}{27.49} = 0.373 \ \#/\text{cu. in.}$$

MEMBER 124, 125 (14"Ø.D. x.375" WT)

$$\gamma = \frac{(54.57 + 0.6 \times 59.75 \times .5)/12}{16.05} = 0.376 \ \#/\text{cu. in.}$$

ELEVATION (-) 73'-0"

MEMBER 136, 137 (18"Ø.D. x.5"WT)

$\gamma = 0.462 \ \#/\text{cu. in.}$

MEMBER 144 (14"Ø.D. x.375"WT)

$\gamma = 0.469 \ \#/\text{cu. in}$

MEMBER 138, 139, 140, 141 (18"Ø.D. x.5" WT)

$\gamma = 0.373 \ \#/\text{cu. in}$

MEMBER 142, 143 (14" ϕ.D. x .375" WT)

$\gamma = 0.376$ #/cu.in.

ELEVATION (-) 105'-0"

MEMBER 157, 158 (18" ϕ.D. x .5" WT)

$\gamma = 0.462$ #/cu.in.

MEMBER 165 (14" ϕ.D. x .375" WT)

$\gamma = 0.469$ #/cu.in.

MEMBER 159, 160, 161, 162 (18" ϕ.D. x .5" WT)

$\gamma = 0.373$ #/cu.in.

MEMBER 163, 164 (14" ϕ.D. x .375" WT)

$\gamma = 0.376$ #/cu.in.

(ii) VIBRATION IN THE DIRECTION OF X

MEMBER 1-2, 2-3, 4-5 $L_P/L = 0.0$

OTHERS $L_P/L = \cos 30° = 0.866$

ELEVATION (+) 12'-0"

MEMBER 65, 66, 100

$\gamma = 0.284$ #/cu. in.

MEMBER 67, 68, 69, 70 (16" ϕ O.D. x .5" WT)

$$\gamma = \frac{(82.77 + 0.6 \times 76.58 \times 0.866)/12}{24.35} = 0.419 \text{ \#/cu. in.}$$

MEMBER 71, 72

$$\gamma = \frac{(65.42 + 0.6 \times 47 \times .866)/12}{19.24} = 0.389 \text{ \#/cu. in.}$$

ELEVATION (-) 13'-0"

MEMBER 99, 101, 108

$\gamma = 0.284$ #/cu. in.

MEMBER 102, 103, 104, 105

$$\gamma = \frac{(65.42 + 0.6 \times 47 \times 0.866)/12}{19.24} = 0.389 \text{ \#/cu. in}$$

MEMBER 106, 107

$$\gamma = \frac{(49.56 + 0.6 \times 49 \times .866)/12}{14.58} = 0.429 \ \#/\text{cu. in.}$$

ELEVATION (-) 41'-0"

MEMBER 118, 119, 126

$\gamma = 0.284 \ \#/\text{cu. in.}$

MEMBER 120, 121, 122, 123

$$\gamma = \frac{(93.45 + 0.6 \times 98.36 \times .866)/12}{27.49} = 0.440 \ \#/\text{cu. in.}$$

MEMBER 124, 125

$$\gamma = \frac{(54.57 + 0.6 \times 59.75 \times .866)/12}{16.05} = 0.445 \ \#/\text{cu. in}$$

ELEVATION (-) 73'-0"

MEMBER 136, 137, 144

$\gamma = 0.284 \ \#/\text{cu. in.}$

MEMBER 138, 139, 140, 141

$\gamma = 0.440 \ \#/\text{cu. in.}$

MEMBER 142, 143

$\gamma = 0.445 \ \#/\text{cu. in}$

ELEVATION (-) 105'-0"

MEMBER 157, 158, 165

$\gamma = 0.284$ #/cu. in.

MEMBER 159, 160, 161, 162

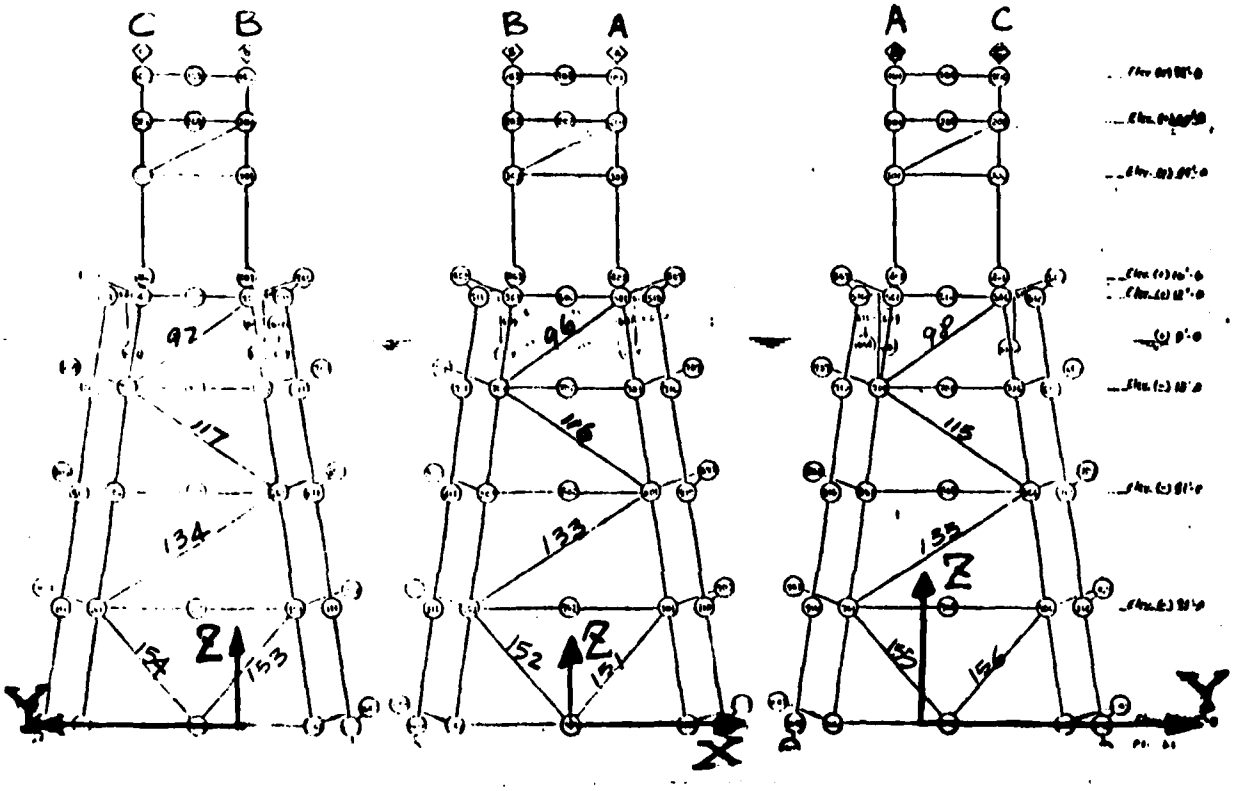
$\gamma = 0.440$ #/cu. in.

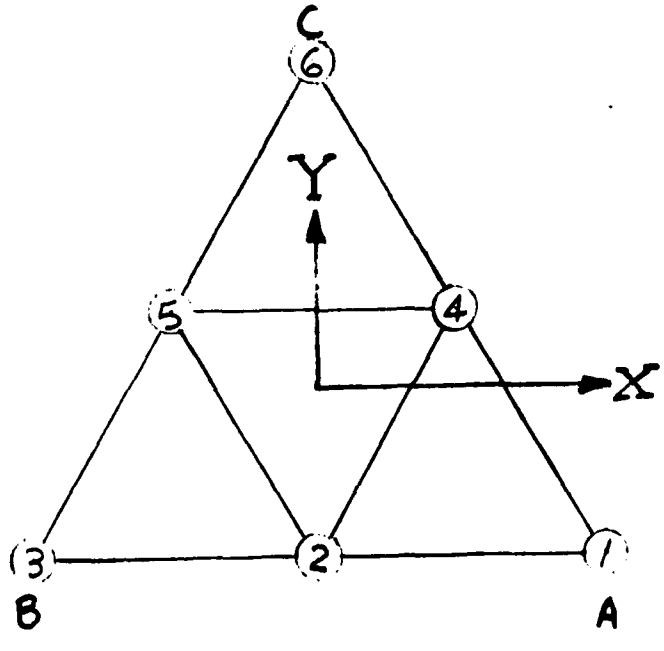
MEMBER 163, 164

$\gamma = 0.445$ #/cu. in.

By C. Chern Client U.S. NAVY Subject Natural Frequency & Earthquake
Date 6-21-16 Job No. 27-771-99 Calculation Natural Frequency Calculation

(5-b) VERTICAL BRACINGS





(i) VIBRATION IN THE DIRECTION OF Y

MEMBERS CONNECTING LEG A & B: $L_p/L = 1.0$

OTHERS : $L_p/L = \underbrace{\cos 60°}_{\text{projected on to X-axis}} \cdot \underbrace{\Delta H/L}_{\text{projected onto Z-axis}}$

where L_p = projected length

ΔH = distance between horizontal braces

L = member length

BETWEEN EL.(+)12'-0" AND EL.(-)13'-0"

MEMBER 96 (20"ϕ.D. x .625" WT)

$$\gamma = \frac{(129.33 + 0.6 \times 119.65 \times 1)/12}{38.04} = 0.441 \ \#/\text{cu. in.}$$

MEMBER 97, 98

$$\gamma = \frac{(129.33 + 0.6 \times 119.65 \times .5 \times 25/38.3)/12}{38.04} = 0.335 \ \#/\text{cu. in.}$$

BETWEEN EL.(-)13'-0" AND EL.(-)41'-0"

MEMBER 116 (20"ϕ.D. x .625" WT)

$\gamma = 0.441 \ \#/\text{cu. in.}$

MEMBER 115, 117

$\gamma = 0.335 \ \#/\text{cu. in.}$

BETWEEN EL.(-)41'-0" AND EL.(-)73'-0"

MEMBER 133 (20"Ø.D. x .625" WT)

$\gamma = 0.441$ #/cu.in.

MEMBER 134, 135

$\gamma = 0.335$ #/cu.in.

BETWEEN EL.(-)73'-0" AND EL.(-)105'-0"

MEMBER 151, 152 (16"Ø.D. x .5" WT)

$$\gamma = \frac{(82.77 + 0.6 \times 76.58 \times 1.0)/12}{24.35} = 0.441 \text{ \#/cu.in.}$$

MEMBER 153, 154, 155, 156

$$\gamma = \frac{(82.77 + 0.6 \times 76.58 \times .5 \times 32/45.25)/12}{24.35} = 0.339 \text{ \#/cu.in.}$$

(ii) VIBRATION IN THE DIRECTION OF X

MEMBERS CONNECTING LEG A & B : $L_p/L = \underbrace{\Delta H/L}_{\text{Projected onto Z-axis}}$

OTHERS : $L_p/L = \underbrace{\cos 30°}_{\text{projected onto Y-axis}} \cdot \underbrace{\Delta H/L}_{\text{Projected onto Z-axis}}$

BETWEEN EL.(+)12'-0" AND EL.(-)13'-0"

MEMBER 96

$$\gamma = \frac{(129.33 + 0.6 \times 119.65 \times {}^{25}/_{38.3})/12}{38.04} = 0.386 \ \#/\text{cu.in}$$

MEMBER 97, 98

$$\gamma = \frac{(129.33 + 0.6 \times 119.65 \times .866 \times {}^{25}/_{38.3})/12}{38.04} = 0.372 \ \#/\text{cu.in}$$

BETWEEN EL.(-)13'-0" AND EL.(-)41'-0"

MEMBER 116

$\gamma = 0.386 \ \#/\text{cu.in}$

MEMBER 115, 117

$\gamma = 0.372 \ \#/\text{cu.in}$

BETWEEN EL.(-) 41'-0" AND EL.(-)73'-0"

MEMBER 133

$\gamma = 0.386$ #/cu.in.

MEMBER 134, 135

$\gamma = 0.372$ #/cu.in.

BETWEEN EL.(-)73'-0" AND EL.(-) 105'-0"

MEMBER 151, 152

$$\gamma = \frac{(82.77 + 0.6 \times 76.58 \times 32/45.25)/12}{24.35} = 0.394 \text{ \#/cu.in}$$

MEMBER 153, 154, 155, 156

$$\gamma = \frac{(82.77 + 0.6 \times 76.58 \times .866 \times 32/45.25)/12}{24.35} = 0.380 \text{ \#/cu.in}$$

2.5 NATURAL FREQUENCIES OF THE STRUCTURE

(1) Natural Frequency of the Structure in the X-direction:

$f = 1.49$ cycles/sec.

Period $T = 0.67$ sec.

(2) Natural Frequency of the Structure in the Y-direction:

$f = 1.45$ Cycles/sec.

Period $T = 0.69$ sec.

SECTION 3

EARTHQUAKE ANALYSIS

3.1 INTRODUCTION

This section evaluates the lateral loads on the structure due to earthquake. The empirical method was used to compute the base shear and to distribute the base shear to each loading joint. The stress analysis is then followed by treating the platform structure as a space frame subjected to lateral loads at the loading joints. ICES STRUDL-II computer program was employed to perform the computation.

The computer printout for the stress analysis due to earthquake is attached in APPENDIX C.

3.2 DATA PREPARATION

Lateral Loads at Base

$$V = ZKCW$$

where $Z = 0.25$ Zone #1

K = Numerical Coefficient, See Table 22, ANSI A58.1-72

$$C = \frac{0.05}{\sqrt[3]{T}}$$

W = total effective weight = $\sum_{i=1}^{n} W_i$ (SEAOC)

$W = \sum_{i=1}^{n} W_i$ + 25% floor live loads (NAVFAC)

T = fundermental period of vibration of the structure, in seconds, in the direction under consideration

$$0.12 \leq kc \leq 0.25$$

$$F_x = \frac{V w_x h_x}{\sum_{i=1}^{n} w_i h_i}$$

NAVFAC P-355

$$M_x = \sum_{i=x}^{n} F_i (h_i - h_x)$$

where F_i, F_x = Lateral force applied to level i or x, respectively

Level i = level of the structure referred to by the subscript i

Level n = that level which is uppermost in the main portion of the structure

Level x = that level which is under design consideration

h_i, h_n, h_x = the height in feet above the base to level i, n, or x, respectively

3.3 EARTHQUAKE LOADS IN X-DIRECTION

(1) Base Shear

Total Effective Weight $W = 1,184,414$ Lbs

Fundamental Period $T = 0.67$ SEC.

$Z = 0.25$ for Zone One

$$C = \frac{0.05}{\sqrt[3]{T}} = \frac{0.05}{\sqrt[3]{0.67}} = 0.0573$$

$K = 3.00$

$KC = 3 \times 0.0573 = 0.172 < 0.25$

Base Shear $= ZKCW$ $(ZKC = 0.043)$

$= .25 \times .172 \times 1,184,414$

$= 50,930$ #

API RP 2A Base Shear $= .05 \times 1,184,414$

$= 59,221$ # ←

(2) Distribution of Base Shear

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$$F_x = \frac{V w_x h_x}{\sum_{i=1}^{n} w_i h_i} = \frac{V\left(\sum_{j=1}^{r} w_{jx}\right) h_x}{\sum_{i=1}^{n}\left(\sum_{j=1}^{r} w_{jx}\right)_i h_i}$$

Joint Number	Lumped Joint Weight w_{jx} (LBS)	Joint Elevation h_x (FT)	$w_{jx} h_x$	$w_{jx} / \Sigma w_{jx}$	Earthquake Joint Load (LBS)
1110	5,549.719				0
1111	5,549.719				0
1112	5,549.461				0
	16,648.899	0	0		0
1001	18,962.758	15		.112	178
1002	10,609.203			.063	101
1003	18,962.758			.112	178
1004	11,588.656			.068	108
1005	11,588.656			.068	108
1006	19,787.609			.118	188
1007	28.938			.000	0
1008	28.938			.000	0

JOINT Number	Lumped Joint Weight W_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$W_{jx} h_x$	$W_{jx} / \Sigma W_{jx}$	Earthquake Joint Load (Lbs)
1009	28.890			.000	0
1010	25,938.352			.153	244
1011	25,938.352			.153	244
1012	25,938.480			.153	244
	169,401.590	15	2,541,023.85	1.000	1,593
901	43,368.656	47		.158	1,277
902	4,918.473			.017	137
903	43,558.879			.159	1,285
904	5,904.473			.022	178
905	5,904.473			.022	178
906	43,988.242			.160	1,293
907	28.938			.000	0
908	28.938			.000	0
909	28.890			.000	0
910	42,208.660			.154	1,245
911	42,208.660			.154	1,245
912	42,208.527			.154	1,245

JOINT Number	Lumped Joint Weight w_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$w_{jx} h_x$	$w_{jx} / \Sigma w_{jx}$	Earthquake Joint Load (Lbs)
	274,355.809	47	12,894,723.02	1.000	8,083
801	40,759.152			.157	2,013
802	4,088.820			.016	205
803	40,408.461			.157	2,013
804	4,908.734			.019	244
805	4,908.734			.019	244
806	40,996.000			.158	2,025
807	28.938			.000	0
808	28.938			.000	0
809	28.890			.000	0
810	40,924.648			.158	2,026
811	40,924.648			.158	2,026
812	40.924.652			.158	2,026
	258,930.615	79	20,455,518.59	1.000	12,822

JOINT Number	Lumped Joint Weight w_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$w_{jx} h_x$	$w_{jx} / \Sigma w_{jx}$	Earthquake Joint Load (Lbs)
701	30,846.754			.159	2,067
702	2,637.746			.014	182
703	26,883.199			.140	1,820
704	2,854.658			.015	194
705	2,854.658			.015	194
706	22,557.480			.116	1,508
707	28.938			.000	0
708	28.938			.000	0
709	28.890			.000	0
710	35,021.695			.180	2,340
711	35,021.695			.180	2,340
712	35,022.590			.181	2,353
	193,787.241	107.0	20,735,234.790	1.000	12,998

JOINT Number	Lumped Joint Weight W_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$W_{jx} h_x$	$W_{jx} / \Sigma W_{jx}$	Earthquake Joint Load (Lbs)
651	12,046.922			.280	860
653	12,046.922			.280	860
656	15,290.152			.356	1,094
661	1,152.264			.027	83
662	1,308.612			.030	93
663	1,152.264			.027	83
	42,997.136	114.0	4,901,673.504	1.000	3,073
601	10,669.531			.429	844
603	10,669.531			.429	844
611	1,159.413			.046	90
612	1,233.381			.050	98
613	1,159.413			.046	90
	24,891.269	126.0	3,136,299.894	1.000	1,966

JOINT Number	Lumped Joint Weight W_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$W_{jx} h_x$	$W_{jx} / \Sigma W_{jx}$	Earthquake Joint Load (Lbs)
501	11,452.137			.105	951
502	2,617.854			.024	217
503	11,373.055			.104	942
504	3,031.822			.027	244
505	3,031.822			.027	244
506	18,550.715			.170	1,540
507	28.938			.000	0
508	28.938			.000	0
509	28.890			.000	0
510	18,803.129			.172	1,557
511	18,864.285			.172	1,557
512	18,803.172			.172	1,557
513	941.299			.009	82
514	941.299			.009	82
515	941.528			.009	82
	109,438.883	132.0	14,445,932.56	1.000	9,055

JOINT Number	Lumped Joint Weight W_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$W_{jx} h_x$	$W_{jx} / \Sigma W_{jx}$	Earthquake Joint Load (Lbs)
401	9,896.918			.332	847
403	10,014.379			.336	856
406	9,896.340			.332	847
	29,807.637	136.5	4,068,742.45	1.000	2,550
301	9,725.125			.333	1,005
303	9,725.922			.334	1,008
306	9,724.988			.333	1,005
	29,176.035	165.0	4,814,045.775	1.000	3,018
201	6,454.211			.285	726
202	1,075.139			.048	123
203	6,454.094			.286	727
204	1,075.113			.048	123
205	1,075.113			.048	123
206	6,454.367			.285	727
	22,588.037	180.0	4,066,027.02	1.000	2,549

By C.Chern Client U.S.NAVY Subject Natural Frequency & Earthquake
Date 7-6-76 Job No. 27-771-99 Calculation Earthquake Analysis

JNT Number	Lumped Joint Weight W_{jx} (Lbs)	Joint Elevation h_x (FT)	$W_{jx} h_x$	$W_{jx} / \Sigma W_{jx}$	Earthquake Joint Load (Lbs)
101	3,055.027			.246	372
102	1,075.139			.087	132
103	3,055.027			.246	372
104	1,075.113			.087	132
105	1,075.113			.087	132
106	3,055.301			.247	374
	12,390.720	195.0	2,416,190.40	1.000	1,514
	1,184,413.871		94,475,411.85		59,221

3.4 EARTHQUAKE LOADS IN Y-DIRECTION

(1) Base Shear

Total Effective Weight $W = 1,186,264.$ lbs

Fundermental Period $T = 0.69$ Sec.

$Z = 0.25$ for Zone One

$$C = \frac{0.05}{\sqrt[3]{T}} = \frac{0.05}{\sqrt[3]{0.69}} = 0.0566$$

$K = 3.00$

$KC = 3 \times .0566 = 0.17 < 0.25$

Base Shear $V = ZKCW$ $(ZKC = 0.0425)$

$= 0.25 \times 0.17 \times 1,186,264$

$= 50,416$ #

API RP 2A Base Shear $V = 0.05 \times 1,186,264$

$= 59,313$ # ←

(2) Distribution of Base Shear

NAVFAC P-355

$$F_x = \frac{V\, w_x h_x}{\sum_{i=1}^{n} w_i h_i} = \frac{V\left(\sum_{j=1}^{r} w_{jx}\right) h_x}{\sum_{i=1}^{n} \left(\sum_{j=1}^{r} w_{jx}\right)_i h_i}$$

Joint Number	Lumped Joint Weight w_{jx} (Lbs)	Joint Elevation h_x (FT)	$w_{jx} h_x$	$w_{jx} / \Sigma w_{jx}$	Earthquake Joint Load (Lbs)
1110	5549.719				0
1111	5549.719				0
1112	5549.461				0
	16,648.899	0	0		0
1001	19,549.332	15		0.115	185
1002	12,644.625			0.073	118
1003	19,549.332			0.115	185
1004	10,732.500			0.063	102
1005	10,732.500			0.063	102
1006	19,079.418			0.112	180
1007	28.938			0.001	0
1008	28.938			0.001	0

Joint Number	Lumped Joint Weight W_{jx} (Lbs)	Joint Elevation h_x (FT)	$W_{jx} h_x$	$W_{jx} / \Sigma W_{jx}$	Earthquake Joint Load (Lbs)
1009	28.890			0.001	0
1010	25,938.352			0.152	243
1011	25,938.352			0.152	243
1012	25,938.480			0.152	243
	170,189.657	15.0	2,552,844.855	1.000	1,601
901	43,404.410	47.0		0.158	1,279
902	6,164.211			0.022	178
903	44,846.145			0.164	1,328
904	5,604.801			0.020	162
905	5,604.801			0.020	162
906	42,372.965			0.154	1,247
907	28.938			0.000	0
908	28.938			0.000	0
909	28.890			0.000	0
910	42,208.660			0.154	1,247
911	42,208.660			0.154	1,247
912	42,208.527			0.154	1,247

JOINT Number	Lumped Joint Weight W_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$W_{jx} h_x$	$W_{jx} / \Sigma W_{jx}$	Earthquake Joint Load (Lbs)
	274,709.993	47.0	12,911,369.67[illegible]	1.000	8,097
801	42,554.211			0.163	2,094
802	5,124.078			0.020	257
803	39,898.813			0.154	1,979
804	4,659.695			0.018	231
805	4,659.695			0.018	231
806	39,565.238			0.153	1,966
807	28.938			0.000	0
808	28.938			0.000	0
809	28.938			0.000	0
810	40,924.648			0.158	2,030
811	40,924.648			0.158	2,030
812	40,924.652			0.158	2,030
	259,322.444	79.0	20,486,477.07[illegible]	1.000	12,848

JOINT Number	Lumped Joint Weight W_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$W_{jx} h_x$	$W_{jx} / \Sigma W_{jx}$	Earthquake Joint Load (Lbs)
701	29,808.012			0.154	2,003
702	2,958.397			0.015	195
703	28,206.961			0.145	1,885
704	2,832.114			0.015	195
705	2,832.114			0.015	195
706	22,006.328			0.113	1,470
707	28.938			0.000	0
708	28.938			0.000	0
709	28.938			0.000	0
710	35,021.695			0.181	2,354
711	35,021.695			0.181	2,354
712	35,022.590			0.181	2,354
	193,796.672	107.0	20,736,243.904	1.000	13,005

JOINT Number	Lumped Joint Weight w_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$w_{jx} h_x$	$w_{jx} / \Sigma w_{jx}$	Earthquake Joint Load (Lbs)
651	12,046.922			0.280	861
653	12,046.922			0.280	861
656	15,290.152			0.356	1,094
661	1,152.264			0.027	83
662	1,308.612			0.030	92
663	1,152.264			0.027	83
	42,997.136	114.0	4,901,673.504	1.000	3,074
601	10,669.531			0.429	844
603	10,669.531			0.429	844
611	1,159.413			0.046	90
612	1,233.381			0.050	99
613	1,159.413			0.046	90
	24,891.269	126.0	3,136,299.894	1.000	1,967

JOINT Number	Lumped Joint Weight W_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$W_{jx} h_x$	$W_{jx} / \Sigma W_{jx}$	Earthquake Joint Load (Lbs)
501	12,202,984			0.111	1,008
502	3,155.468			0.029	263
503	11,238.180			0.102	927
504	2,912.415			0.026	236
505	2,912.415			0.026	236
506	17,942.203			0.163	1,480
507	28.938			0.000	0
508	28.938			0.000	0
509	28.890			0.000	0
510	18,803.129			0.172	1,563
511	18,864.285			0.172	1,563
512	18,803.172			0.172	1,563
513	941.299			0.009	82
514	941.299			0.009	82
515	941.528			0.009	82
	109,745.143	132.0	14A86,358.876	1.000	9,085

JOINT Number	Lumped Joint Weight w_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$w_{jx} h_x$	$w_{jx} / \Sigma w_{jx}$	Earthquake Joint Load (Lbs)
401	9,896.918			0.332	847
403	10,014.379			0.336	858
406	9,896.340			0.332	847
	29,807.637	136.5	4,068,742.451	1.000	2,552
301	9,725.125			0.333	1005
303	9,725.922			0.334	1009
306	9,724.988			0.333	1005
	29,176.035	165.0	4,814,045.775	1.000	3,019
201	6,454.211			0.286	729
202	1,075.139			0.047	120
203	6,454.094			0.286	729
204	1,075.113			0.047	120
205	1,075.113			0.047	120
206	6,454.357			0.287	732
	22,588.037	180.0	4,065,846.660	1.000	2,550

Joint Number	Lumped Joint Weight w_{jx} (Lbs)	Joint Elevation h_x (FT)	$w_{jx} h_x$	$w_{jx} / \Sigma w_{jx}$	Earthquake Joint Load (Lbs)
101	3,055.027			0.247	374
102	1,075.139			0.087	133
103	3,055.027			0.247	374
104	1,075.113			0.086	130
105	1,075.113			0.086	130
106	3,055.301			0.247	374
	12,390.720	195.0	2,416,190.400	1.000	1,515
	1,186,263.642		94,576,093.070		59,313

3.5 GRAVITY LOADS AND BUOYANCY

MEMBER DENSITY

1. SUPERSTRUCTURAL MEMBERS

41 TΦ 64
79 TΦ 95
172 TΦ 180

DENSITY OF ALL MEMBERS = 0.284 #/cu.in.

2. WISHBONE MEMBERS** 73 TΦ 78, 109 TΦ 114, 127 TΦ 132
145 TΦ 150, 166 TΦ 171

Actual shim Size = 10" x 5" x 1" (ea.)

Fictious Wishbone Member = 10" x 5" x 30.5"

$$\text{Density of Wishbone Members} = \frac{(.284 \times 10 \times 5 \times 1 - 0.037 \times 10 \times 5 \times 1) \times 2}{10 \times 5 \times 30.5}$$

$$= .016 \ \#/\text{cu. in.}$$

** Fictitious members, no member density is required in the analysis **

3. PILINGS

$$\text{Density of Piling} = \frac{\text{Steel Wt.} - \text{Buoyancy (Flooded)}}{\text{Steel Cross-sectional Area}}$$

42" Φ.D. x 1.75" WT 201 TΦ 206, 213 TΦ 215

$$\gamma_{1.75} = \frac{752.28/12 - 0.037 \times 221.29}{221.29} = 0.247 \ \#/\text{cu. in.}$$

42"ϕ.D. x 2.00" WT 207 Tϕ 212, 216 Tϕ 218

$\gamma_{2.0} = .284 - .037 = 0.247$ #/cu.in.

4. JACKET LEGS

$$\text{Density of Jacket Legs} = \frac{\text{Steel Wt} - \text{Buoyancy}}{\text{Steel Cross-Sectional Area}}$$

46"ϕ.D.x 1.00" WT 181 Tϕ 191

$\gamma_{1.0} = 0.247$ #/cu.in.

46" ϕ.D. x .5" WT 192 Tϕ 200

$\gamma_{.5} = 0.247$ #/cu.in.

5. BRACINGS

$$\text{Density of Bracing} = \frac{(\text{Steel Wt.} - 64.2 \times \pi \frac{D^2}{4})/12}{\text{Steel Cross-sectional Area}}$$

(5-a) Horizontal Bracings

ELEVATION (+) 12'-0"

Member #65 Tϕ 70 (16"ϕD x .5" WT)

$$\gamma = \frac{\left[82.77 - 64.2 \times \frac{\pi}{4}\left(\frac{16}{12}\right)^2\right]/12}{24.35} = -0.024 \ \#/in^3$$

Member # 100, 71, 72 ($12\frac{3}{4}$" ϕ.D. x .5" WT)

$$\gamma = \frac{\left[65.42 - 64.2 \times \frac{\pi}{4} \times \left(\frac{12.75}{12}\right)^2\right]/12}{19.24} = 0.037 \ \#/in^3$$

ELEVATION (-) 13'-0"

Member # 99, 101 TO 105 ($12\frac{3}{4}$" ϕ.D. x .5" WT)

$$\gamma = \frac{\left[65.42 - 64.2 \times \frac{\pi}{4} \times \left(\frac{12.75}{12}\right)^2\right]/12}{19.24} = 0.037 \ \#/in^3$$

Member # 106 TO 108 ($12\frac{3}{4}$" ϕ.D. x .375" WT)

$$\gamma = \frac{\left[49.56 - 64.2 \times \frac{\pi}{4} \times \left(\frac{12.75}{12}\right)^2\right]/12}{14.58} = -0.042 \ \#/in^3$$

ELEVATION (-) 41'-0"

Member # 118 TO 123 (18" ϕ.D. x .5" WT)

$$\gamma = \frac{\left[93.45 - 64.2 \times \frac{\pi}{4} \times \left(\frac{18}{12}\right)^2\right]/12}{27.49} = -0.061 \ \#/in^3$$

Member # 124 TO 126 (14" ϕ.D. x .375" WT)

$$\gamma = \frac{\left[54.57 - 64.2 \times \frac{\pi}{4} \times \left(\frac{14}{12}\right)^2\right]/12}{16.05} = -0.073 \ \#/in^3$$

ELEVATION (-) 73'-0"

Member #136 TΦ 141 (18"Φ.D. x .5" WT)

$\gamma = -.061\ \#/in^3$

Member #142 TΦ 144 (14"Φ.D. x .375" WT)

$\gamma = -0.073\ \#/in^3$

ELEVATION (-) 105'-0"

Member #157 TΦ 162 (18"Φ.D. x .5" WT)

$\gamma = -.061\ \#/in^3$

Member #163 TΦ 165 (14"Φ.D. x .375" WT)

$\gamma = -0.073\ \#/in^3$

(5-b) Virtical Bracings

Between EL.(+)12'-0" and EL.(-)13'-0"

Member #96 TΦ 93 (20"Φ.D. x .625" WT)

$$\gamma = \frac{\left[129.33 - 64.2 \times \frac{\pi}{4} \times \left(\frac{20}{12}\right)^2\right]/12}{38.04} = -0.024\ \#/in^3$$

Between EL (-)13'-0" and EL.(-)41'-0"

Member #115 TΦ 117 (20"Φ.D. x .625" WT)

$\gamma = -0.024\ \#/in^3$

Between EL.(-)41'-0" and EL.(-)73'-0"

Member #133 TΦ135 (20"Φ.D. x .625"WT)

$\gamma = -0.024\ \#/in^3$

Between EL.(-)73'-0" and EL.(-)105'-0"

Member #151 TΦ156 (16"Φ.D. x .5"WT)

$\gamma = -0.024\ \#/in^3$

By C. Chern Client U.S. NAVY Subject Natural Frequency & Earthquake
Date 7-6-16 Job No. 27-711-95 Calculation Earthquake Analysis

JOINT Number	Lumped Joint Weight w_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$w_{jx} h_x$	$w_{jx} / \Sigma w_{jx}$	Earthquake Joint Load (Lbs)
1110	-3,073.498				
1111	-3,073.498				
1112	-3,073.355				
	-9,220.351	0			
1001	-2,803.619				
1002	1,391.355				
1003	-2,803.619				
1004	1,391.377				
1005	1,391.377				
1006	-2,803.645				
1007	-24.369				
1008	-24.369				
1009	-24.328				
1010	-13,725.039				
1011	-13,725.039				
1012	-13,725.094				
	-45,485.012	15.0			

JOINT Number	Lumped Joint Weight w_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$w_{jx} h_x$	$w_{jx} / \Sigma w_{jx}$	Earthquake Joint Load (Lbs)
901	-5,710.398				
902	937.205				
903	-5,710.410				
904	937.219				
905	937.219				
906	-5,710.270				
907	-24.369				
908	-24.369				
909	-24.328				
910	-22,735.727				
911	-22,735.727				
912	-22,735.633				
	-82,599.588	47.0			

Joint Number	Lumped Joint Weight w_{jx} (Lbs)	Joint Elevation h_x (FT)	$w_{jx} h_x$	$w_{jx} / \Sigma w_{jx}$	Earthquake Joint Load (Lbs)
801	-5,395.117				
802	779.093				
803	-5,395.113				
804	779.183				
805	779.183				
806	-5,394.973				
807	-24.369				
808	-24.369				
809	-24.328				
810	-22,668.715				
811	-22,668.715				
812	-22,668.711				
	-81,926.951	79.0			

By C. Chern Client U.S. NAVY Subject Natural Frequency & Earthquake
Date 7-6-16 Job No. 27-JIL-99 Calculation Earthquake Analysis

JOINT Number	Lumped Joint Weight w_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$w_{jx} h_x$	$w_{jx} / \Sigma w_{jx}$	Earthquake Joint Load (Lbs)
701	-3,885.314				
702	-22.446				
703	-4,160.063				
704	-22.413				
705	-22.413				
706	-4,434.809				
707	-24.369				
708	-24.369				
709	-24.328				
710	-18,896.406				
711	-18,896.406				
712	-18,896.883				
	-69,310.219	107.0			

Joint Number	Lumped Joint Weight W_{jx} (Lbs)	Joint Elevation h_x (FT)	$W_{jx} h_x$	$W_{jx} / \Sigma W_{jx}$	Earthquake Joint Load (Lbs)
651	-5,102.770				
653	-5,102.770				
656	-6,153.293				
661	-1,152.264				
662	-1,308.612				
663	-1,152.264				
	-19,971.973	114.0			
601	-4,091.552				
603	-4,091.552				
611	-1,159.413				
612	-1,233.381				
613	-1,159.413				
	-11,735.311	126.0			

Joint Number	Lumped Joint Weight w_{jx} (Lbs)	Joint Elevation h_x (FT)	$w_{jx} h_x$	$w_{jx} / \Sigma w_{jx}$	Earthquake Joint Load (Lbs)
501	-2,003.133				
502	-23.174				
503	-2,023.574				
504	-23.177				
505	-23.177				
506	-4,552.242				
507	-24.369				
508	-24.369				
509	-24.328				
510	-9,823.598				
511	-9,855.535				
512	-9,823.609				
513	-941.299				
514	-941.299				
515	-941.528				
	-41,048.411	132.0			

JOINT Number	Lumped Joint Weight w_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$w_{jx} h_x$	$w_{jx} / \Sigma w_{jx}$	Earthquake Joint Load (Lbs)
401	-6,880.102				
403	-6,933.160				
406	-6,879.840				
	-20,693.102	136.5			
301	-9,725.125				
303	-9,725.922				
306	-9,724.988				
	-29,176.035	165.0			
201	-6,454.211				
202	-1,075.139				
203	-6,454.094				
204	-1,075.113				
205	-1,075.113				
206	-6,454.367				
	-22,588.037	180.0			

By C. Chern Client U.S. NAVY Subject Natural Frequency & Earthquake
Date 7-6-12 Job No. 27-JIL-94 Calculation Earthquake Analysis

JOINT Number	Lumped Joint Weight w_{jx} (Lbs)	Joint ELEVATION h_x (FT)	$w_{jx} h_x$	$w_{jx} / \Sigma w_{jx}$	Earthquake Joint Load (Lbs)
101	-3,055,027				
102	-1,075.139				
103	-3,055.027				
104	-1,075.113				
105	-1,075.113				
106	-3,055.301				
	-12,390.720	195.0			
	-446,145.710				

3.6 TRANSIENT LIVE LOADS

REF: NAVFAC P-355 page 1-4 item e

ANSI A58-1-1972

API RP 2A 7th Edition, January 1976

W = 25% of Deck Floor Live Loads

(a) EQUIPMENT DECK EL.(+) 60'-0"

DESIGN LIVE LOAD = 150 psf

$$W = .25 \times 150 \times \left[\frac{1}{2} \times (29 \times 25) + 8 \times 21\right]$$

$$= 19,894 \text{ LBS}$$

Earthquake Load Coefficient = 0.05 (API RP2A)

Earthquake Lateral Load = $.05 \times 19,894$

$= 995$ LBS

Equally distributed to joints #201, 203, 206

JOINT NO.	GRAVITY LOAD	EARTHQUAKE LATERAL LOAD
201	-6,632 LBS	332 LBS
203	-6,632	332
206	-6,632	332

(b) UPPER DECK EL.(+) 75'-0"

DESIGN LIVE LOAD = 100 PSF

$W = .25 \times 100 \times \frac{1}{2} \times (29 \times 25) = 9,063$ LBS

Earthquake Coefficient = 0.05 (API RP 2A)

Earthquake Lateral Load = $.05 \times 9,063$

$= 453$ LBS

Equally distributed to Joints #101, 103, 106

JOINT NO.	GRAVITY LOAD	EARTHQUAKE LATERAL LOAD
101	-3,021 LBS	151 LBS
103	-3,021	151
106	-3,021	151

LOADINGS AND LOADING COMBINATIONS

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

LOADING 3 GRAVITY LOADS AND BUOYANCY

LOADING 4 TRANSIENT LIVE LOADS IN Y-DIRECTION

LOADING 5 TRANSIENT LIVE LOADS IN X-DIRECTION

LOADING COMBINATIONS

COMBINE 6 (1+3+4) VIBRATION IN Y-DIRECTION

COMBINE 7 (2+3+5) VIBRATION IN X-DIRECTION

3.8 SUMMARY

The results of earthquake analysis may be summarized in the following table:

LOADING CONDITION	DESIGNATION	BASE SHEAR DUE TO LOADING CONDITION
		LBS
1	EARTHQUAKE LOADS IN Y-DIRECTION	59,313
2	EARTHQUAKE LOADS IN X-DIRECTION	59,221
3	GRAVITY LOADS AND BUOYANCY	0
4	TRANSIENT LIVE LOADS IN Y-DIRECTION	1,449
5	TRANSIENT LIVE LOADS IN X-DIRECTION	1,449
6 (=1+3+4)	VIBRATION IN Y-DIRECTION	60,762
7 (=2+3+5)	VIBRATION IN X-DIRECTION	60,670

SECTION 4

REFERENCES

1. Department of the Army, the Navy, and the Air Force

   SEISMIC DESIGN FOR BUILDINGS, Army TM5-809-10, Navy NAVFAC P-355, Air Force AFM 88-3, Chap. 13, April 1973.

2. American National Standard Institute

   BUILDING CODE REQUIREMENTS FOR MINIMUM DESIGN LOADS IN BUILDINGS AND OTHER STRUCTURES, ANSI A58.1, 1972.

3. American Institute of Steel Construction, Inc.

   SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, 7th Edition, 1969.

4. Massachusetts Institute of Technology

   ICES STRUDL-II ENGINEERING USER'S MANUAL, Volume 2, Second Edition, June 1971.

5. American Petroleum Institute

   PROPOSED REVISIONS TO API RP2A FOR EARTH DESIGN (Committee Correspondence from Mr. L. P. Johnston)

APPENDIX A

LUMPED JOINT LOADS

```
LL          EEEEEEEEEEEE   CCCCCCCCCCC   5555555555555   666666666666   5555555555555   5555555555555
LL          EEEEEEEEEEEE   CCCCCCCCCCCC  5555555555555   6666666666666   5555555555555   5555555555555
LL          EE             CC        CC  55              66              55              55
LL          EE             CC        CC  55              66              55              55
LL          EE             CC            55              66              55              55
LL          EEEEEEEEE      CC            555555555555    666666666666    555555555555    555555555555
LL          EEEEEEEEE      CC            5555555555555   6666666666666   5555555555555   5555555555555
LL          EE             CC                      55  66          66              55              55
LL          EE             CC        CC            55  56          66              55              55
LL          EE             CC        CC  55        55  66          66  55          55  55          55
LLLLLLLLLLLLL  EEEEEEEEEEEEE  CCCCCCCCCCCCC  5555555555555   6666666666666   5555555555555   5555555555555
LLLLLLLLLLLLL  EEEEEEEEEEEEE   CCCCCCCCCCC    55555555555     66666666666     55555555555     55555555555


        JJ   00000000000   BBBBBBBBBBB                  11          33333333333   5555555555555   33333333333
        JJ   0000000000000  BBBBBBBBBBBB                111         3333333333333  5555555555555  3333333333333
        JJ   00        00  BB        BB               1111         33        33  55              33        33
        JJ   00        00  BB        BB                 11                  33  55                        33
        JJ   00        00  BB        BB                 11                  33  55                        33
        JJ   00        00  BBBBBBBBBBB                  11                 333  555555555555            333
        JJ   00        00  BBBBBBBBBBB                  11                 333  5555555555555           333
        JJ   00        00  BB        BB                 11                  33              55            33
JJ      JJ   00        00  BB        BB                 11                  33              55            33
JJ      JJ   00        00  BB        BB                 11         33        33  55          55  33        33
JJJJJJJJJJJJJ  0000000000000  BBBBBBBBBBBB              111111       333333333333  5555555555555  333333333333
 JJJJJJJJJJJ   00000000000   BBBBBBBBBBB               111111        3333333333    55555555555    3333333333
```

A.1 X-DIRECTION

```
 SSSSSSSSSSS   YY        YY   SSSSSSSSSSS   MM         MM   SSSSSSSSSSS   GGGGGGGGGGG
SSSSSSSSSSSSS   YY      YY   SSSSSSSSSSSSS  MMM       MMM  SSSSSSSSSSSSS  GGGGGGGGGGGGG
SS        SS    YY    YY    SS        SS   MMMM     MMMM  SS        SS   GG        GG
SS              YY  YY      SS             MM MM   MM MM  SS             GG        GG
SS                YYYY      SS             MM  MM MM  MM  SS             GG
SSSSSSSSSSSS        YY      SSSSSSSSSSSS   MM   MMM   MM  SSSSSSSSSSSS   GG
 SSSSSSSSSSSS       YY       SSSSSSSSSSSS  MM    M    MM   SSSSSSSSSSSS  GG      GGGG
          SS        YY                 SS  MM         MM             SS  GG      GGGGG
          SS        YY                 SS  MM         MM             SS  GG        GG
SS        SS        YY      SS        SS   MM         MM  SS        SS   GG        GG
SSSSSSSSSSSSS       YY      SSSSSSSSSSSSS  MM         MM  SSSSSSSSSSSSS  GGGGGGGGGGGGG
 SSSSSSSSSSS        YY       SSSSSSSSSSS   MM         MM   SSSSSSSSSSS   GGGGGGGGGGG
```

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//LEC5655 JOH (00442705002777101PCETENG96),'CHERN      ',PRTY=4,CLASS=D,C
// TIME=(060,00),REGION=500K
//*MAIN  LINES=(080,W),CARDS=(00,C),SYSTEM=A,FAILURE=RESTART
//*IN15656 EXEC WIN15656
//WIN15656.SYSIN DD *
/*



AMDS01 JOB 1353 (LEC5655 ) IN SETUP ON MAIN=A
AMD302 STEPLIB  USING D ONL001 ON 100
 LEC5655  IEF403I LEC5655  STARTED     TIME=10.27.19
 LEC5655  IEF234E D 6B1,ASP6B1
*LEC5655 *04 IECASP0 6AB IS LEC5655    A WIN15656WIN15656FT06F001
*LEC5655 *75 IECASP0 6A9 IS LEC5655     WIN15656WIN15656ASPI0001
 LEC5655  IEC202E K 6A9,011353,NL,LEC5655,WIN15656
 LEC5655  TI=LEC5655 CC=00442705 P=2777101 P J=CETENG96 N=CHERN       A=1353
 LEC5655  IEF404I LEC5655  ENDED       TIME=10.42.02
//LEC5655 JOH (00442705002777101PCETENG96),'CHERN      ',PRTY=4,CLASS=D,*
// TIME=(060,00),REGION=500K
//WIN15656 EXEC WIN15656
XX*IN15656 EXEC PGM=QQQICEX5,PARM=00000                                  00020000
XXSTEPLIB DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,DSN=MAC.ICESV2P3         00040000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00060000
XX DSN=ICES.STRUDL.FIX                                                   00080000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00100000
XX DSNAME=MAC.SDDUMANG                                                   00120000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00140000
XX DSNAME=MAC.STR2P5                                                     00160000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00180000
XX DSNAME=MAC.TABLE2P5                                                   00200000
XXFT05F001 DD DDNAME=SYSIN                                               00220000
XXFT06F001 DD SYSOUT=A,DCB=(RECFM=FB,LRECL=133,BLKSIZE=798)              00240000
XXFT06F002 DD SYSOUT=A                                                   00260000
XXFT07F001 DD SYSOUT=B                                                   00280000
XXFT10F001 DD DUMMY                                                      00300000
XXDD1 DD UNIT=SYSDA,DCB=DSORG=DA,SPACE=(TRK,10)                          00320000
XXDD2 DD DSN=MAC.STR2P5,DD2,DISP=SHR,DCB=DSORG=DA,UNIT=SYSDA,            00340000
XX VOL=SER=ONL001                                                        00360000
XXDD3 DD DSN=DD3,SDDUMANG,DISP=SHR,DCB=DSORG=DA,UNIT=SYSDA,              00380000
XX VOL=SER=ONL001                                                        00400000
XXDD4 DD UNIT=SYSDA,DCB=(DSORG=DA,BLKSIZE=6300),SPACE=(6300,(500,50))    00420000
//*IN15656.SYSIN DD UNIT=(CTC,,DEFER),DSNAME=&&ASPI0001,                 *
// DISP=(OLD,DELETE),VOL=SER=011353,DCB=(LRECL=80,BLKSIZE=80,RECFM=F)
//
IEF236I ALLOC. FOR LEC5655  WIN15656 WIN15656
IEF237I 100    ALLOCATED TO STEPLIB
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 6A9    ALLOCATED TO FT05F001
IEF237I 6AB    ALLOCATED TO FT06F001
IEF237I 6B0    ALLOCATED TO FT06F002
IEF237I 6B1    ALLOCATED TO FT07F001
IEF237I 198    ALLOCATED TO DD1
IEF237I 100    ALLOCATED TO DD2
IEF237I 100    ALLOCATED TO DD3
IEF237I 102    ALLOCATED TO DD4
IEF142I * STEP WAS EXECUTED * COND CODE 0000
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                                                    KEPT
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IEF285I     CES,STRUDL,FIX                          KEPT
IEF285I       L SER NOS= ONL001,
IEF285I     AC,SDOUBANG                             KEPT
IEF285I     VOL SER NOS= ONL001,
IEF285I     AC,STR2P5                               KEPT
IEF285I     VOL SER NOS= ONL001,
IEF285I     AC,TABLE2P5                             KEPT
IEF285I     VOL SER NOS= ONL001,
IEF285I     SYS76189,T092931,RVU01,LEC5655,ASPI0001 DELETED
IEF285I     VOL SER NOS= 011353,
IEF285I     SYS76189,T092931,RVU01,LEC5655,ASPOA001 DELETED
IEF285I     VOL SER NOS= ASPOAH,
IEF285I     SYS76189,T092931,RVU01,LEC5655,RU001181 DELETED
IEF285I     VOL SER NOS= SCR002,
IEF285I     AC,STR2P5,DD2                           KEPT
IEF285I     VOL SER NOS= ONL001,
IEF285I     DD3,SDOUBANG                            KEPT
IEF285I     VOL SER NOS= ONL001,
IEF285I     SY376189,T092931,RVU01,LEC5655,R0001182 DELETED
IEF285I     VOL SER NOS= SCR004,
IEF373I STEP /RIN15656/ START 76189,1027
IEF374I STEP /RIN15656/ STOP  76189,1042 CPU    0MIN 27.94SEC STOR VIRT 512K
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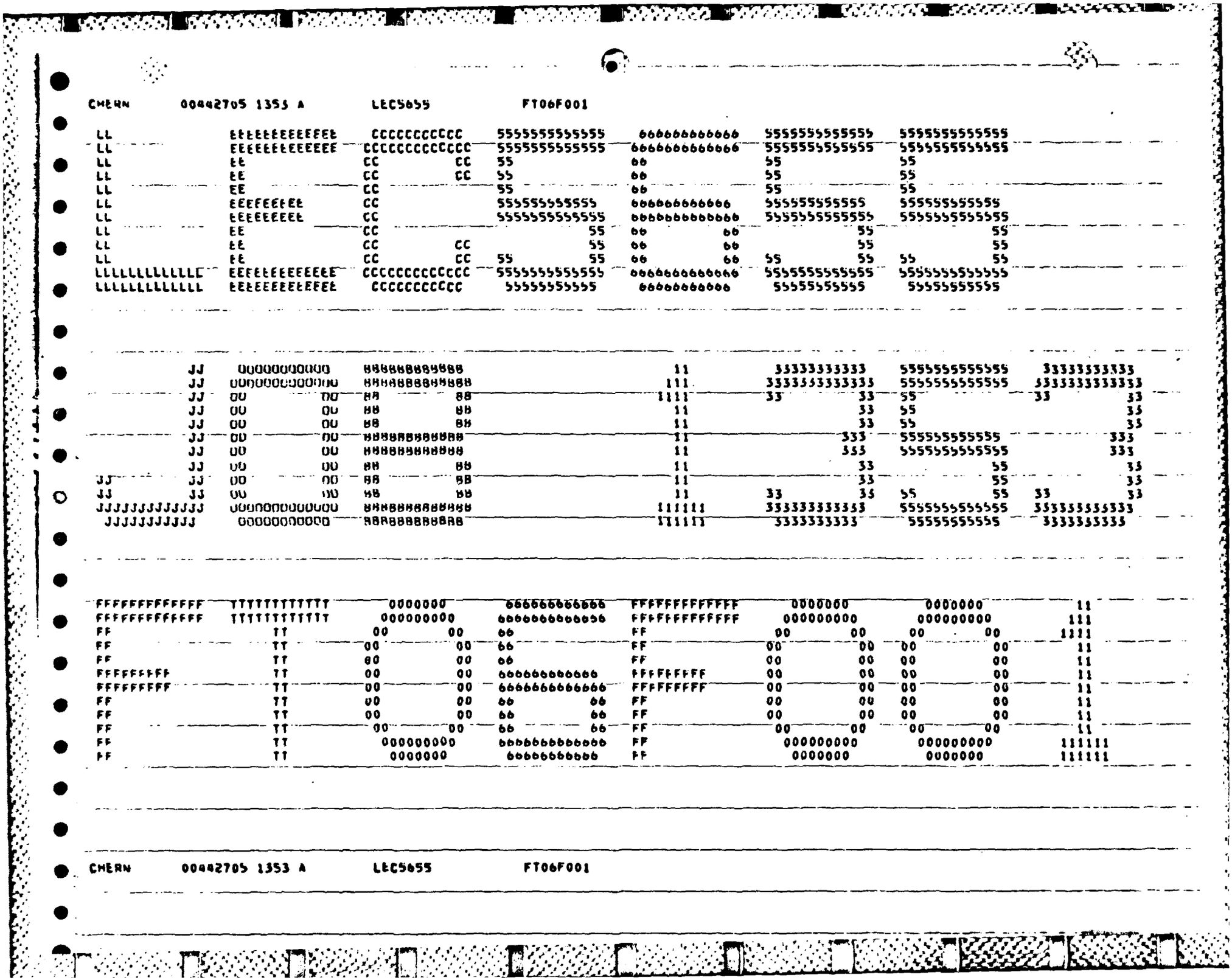
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LL EEEEEEEEEEEEE CCCCCCCCCCCCC 5555555555555 6666666666666 5555555555555 5555555555555
LL EE CC CC 55 66 55 55
LL EE CC CC 55 66 55 55
LL EE CC 55 66 55 55
LL EEEEEEEEE CC 5555555555555 666666666666 5555555555555 5555555555555
LL EEEEEEEEE CC 5555555555555 6666666666666 5555555555555 5555555555555
LL EE CC 55 66 66 55 55
LL EE CC CC 55 66 66 55 55
LL EE CC CC 55 55 66 66 55 55 55 55
LLLLLLLLLLLLL EEEEEEEEEEEEE CCCCCCCCCCCCC 5555555555555 6666666666666 5555555555555 5555555555555
LLLLLLLLLLLLL EEEEEEEEEEEEE CCCCCCCCCCC 5555555555 66666666666 5555555555 5555555555
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JJ OOOOOOOOOOOO 8888888888888 111 3333333333333 5555555555555 3333333333333
JJ OO OO 88 88 1111 33 33 55 33 33
JJ OO OO 88 88 11 33 55 33
JJ OO OO 88 88 11 33 55 33
JJ OO OO 88888888888 11 333 555555555555 333
JJ OO OO 88888888888 11 333 555555555555 333
JJ OO OO 88 88 11 33 55 33
JJ JJ OO OO 88 88 11 33 55 33
JJ JJ OO OO 88 88 11 33 33 55 55 33 33
JJJJJJJJJJJJ OOOOOOOOOOOO 8888888888888 111111 333333333333 5555555555555 3333333333
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FFFFFFFFFFFF TTTTTTTTTTTT 000000000 6666666666666 FFFFFFFFFFFFF 000000000 000000000 111
FF TT 00 00 66 FF 00 00 00 00 1111
FF TT 00 00 66 FF 00 00 00 00 11
FF TT 00 00 66 FF 00 00 00 00 11
FFFFFFFFF TT 00 00 666666666666 FFFFFFFFF 00 00 00 00 11
FFFFFFFFF TT 00 00 6666666666666 FFFFFFFFF 00 00 00 00 11
FF TT 00 00 66 66 FF 00 00 00 00 11
FF TT 00 00 66 66 FF 00 00 00 00 11
FF TT 00 00 66 66 FF 00 00 00 00 11
FF TT 000000000 6666666666666 FF 000000000 000000000 111111
FF TT 0000000 66666666666 FF 0000000 0000000 111111
CHERN 00442705 1353 A LEC5655 FT06F001

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CHERN      00442705 1353 A        LEC5655          FT06F001

LL              EEEEEEEEEEEE    CCCCCCCCCCC    5555555555555    666666666666    5555555555555    5555555555555
LL              EEEEEEEEEEEE    CCCCCCCCCCCCC  5555555555555    6666666666666   5555555555555    5555555555555
LL              EE              CC         CC  55               66              55              55
LL              EE              CC         CC  55               66              55              55
LL              EE              CC             55               66              55              55
LL              EEEEEEEEE       CC             555555555555     666666666666    555555555555    555555555555
LL              EEEEEEEEE       CC             5555555555555    6666666666666   5555555555555    5555555555555
LL              EE              CC                        55    66         66              55              55
LL              EE              CC         CC             55    66         66              55              55
LL              EE              CC         CC  55         55    66         66    55        55    55        55
LLLLLLLLLLLLL   EEEEEEEEEEEEE   CCCCCCCCCCCCC  5555555555555    6666666666666   5555555555555    5555555555555
LLLLLLLLLLLLL   EEEEEEEEEEEEE    CCCCCCCCCCC    55555555555     66666666666     55555555555     55555555555


          JJ    00000000000     888888888888                  11          33333333333    5555555555555    33333333333
          JJ    0000000000000   8888888888888                111         3333333333333   5555555555555   3333333333333
          JJ    00         00   88         88               1111         33         33   55              33         33
          JJ    00         00   88         88                 11                    33   55                         33
          JJ    00         00   88         88                 11                    33   55                         33
          JJ    00         00   888888888888                 11                   333   555555555555              333
          JJ    00         00   888888888888                 11                   333   5555555555555             333
          JJ    00         00   88         88                 11                    33              55              33
JJ        JJ    00         00   88         88                 11                    33              55              33
JJ        JJ    00         00   88         88                 11         33         33   55        55    33        33
JJJJJJJJJJJJJ   0000000000000   8888888888888               111111       333333333333   5555555555555   333333333333
 JJJJJJJJJJJ     00000000000    888888888888                111111        3333333333     55555555555     3333333333


FFFFFFFFFFFFF   TTTTTTTTTTTT      0000000       666666666666   FFFFFFFFFFFFF      0000000        0000000          11
FFFFFFFFFFFFF   TTTTTTTTTTTT     000000000     6666666666666   FFFFFFFFFFFFF     000000000      000000000         111
FF                   TT          00        00   66             FF              00        00    00        00       1111
FF                   TT         00         00   66             FF             00         00   00         00        11
FF                   TT         00         00   66             FF             00         00   00         00        11
FFFFFFFFF            TT         00         00   666666666666   FFFFFFFFF      00         00   00         00        11
FFFFFFFFF            TT         00         00   6666666666666  FFFFFFFFF      00         00   00         00        11
FF                   TT         00         00   66         66  FF             00         00   00         00        11
FF                   TT         00         00   66         66  FF             00         00   00         00        11
FF                   TT          00        00   66         66  FF              00        00    00        00        11
FF                   TT           000000000     6666666666666  FF               000000000      000000000       111111
FF                   TT            0000000       66666666666   FF                0000000        0000000        111111


CHERN      00442705 1353 A        LEC5655          FT06F001
```

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MCDONNELL-ECI ICES EXECUTIVE SYSTEM

    MAC REL. 2.3 - RELEASED  2/5/73
      TIME=10,27,22,  7/07/76
```

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STRUDL 'ACMR' 'DYNAMIC ANALYSIS OF TRIPOD STRUCTURE AT 105 FT WATER --U.S.NAVY'

                                                                    CCCCCCCCCCCCCCCCCCCCCCCC EEEEEEEEEEEEEEEEEEEEEEEE
                                                                    CCCCCCCCCCCCCCCCCCCCCCCC EEEEEEEEEEEEEEEEEEEEEEEE
                                                                    CCCCCCCCCCCCCCCCCCCCCCCC EEEEEEEEEEEEEEEEEEEEEEEE
                                                                    CCCCCCCCCCCCCCCCCCCCCCCC EEEEEEEEEEEEEEEEEEEEEEEE
                                                                    CCCCCCCCCCCCCCCCCCCCCCCC EEEEEEEEEEEEEEEEEEEEEEEE
                                                                    CCCCCCCCCC               EEEEEEEEEE
                                                                    CCCCCCCCC EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE
                                                                    CCCCCCCCC EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE
                                                                    CCCCCCCCC EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE
                                                                    CCCCCCCCC EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE
                                                                    CCCCCCCCC                EEEEEEEEEE
                                                                    CCCCCCCCCCCCCCCCCCCCCCCC EEEEEEEEEEEEEEEEEEEEEEEE
                                                                    CCCCCCCCCCCCCCCCCCCCCCCC EEEEEEEEEEEEEEEEEEEEEEEE
                                                                    CCCCCCCCCCCCCCCCCCCCCCCC EEEEEEEEEEEEEEEEEEEEEEEE
                                                                    CCCCCCCCCCCCCCCCCCCCCCCC EEEEEEEEEEEEEEEEEEEEEEEE
                                                                    CCCCCCCCCCCCCCCCCCCCCCCC EEEEEEEEEEEEEEEEEEEEEEEE

                 ******************************************
                 *                                        *
                 *                                        *
                 *          MCDONNELL-ECI ICES STRUDL     *
                 *                                        *
                 *              MAC REL 2.5               *
                 *        10:29:17        7/07/76         *
                 *        SIZE OF POOL 30640 BYTES        *
                 *                                        *
                 *        IMPLEMENTED AT C-E JAN 1975     *
                 *                                        *
                 *                                        *
                 ******************************************

DUMP TIME

TYPE SPACE FRAME

UNIT FEET

JOINT COORDINATES

1110      34.21     -19.75     -15.00      S

1010      32.04     -18.50      -0.01

1007      34.21     -19.75       0.41

910       27.42     -15.83      31.99

1001      32.04     -18.50       0.0

907       29.59     -17.08      32.41

810       22.79     -13.16      63.99

1002       0.       -18.50       0.0

1004      16.02       9.25       0.0

901       27.42     -15.83      32.00
```

807	24,96	-14,41	64,41
710	18,76	-10,83	91,99
1003	-32,08	-18,50	0,0
1005	-16,02	9,25	0,0
903	-27,42	-15,83	32,00
1006	0,	37,00	0,0
906	0,	31,66	32,00
902	0,	-15,83	32,00
904	13,71	7,91	32,00
806	0,	26,32	64,00
801	22,79	-13,16	64,00
707	20,93	-12,08	92,41
510	15,15	-8,75	116,99
1008	-34,21	-19,75	0,41
908	-29,59	-17,08	32,41
905	-13,71	7,91	32,00
803	-22,79	-13,16	64,00
1009	0,	39,50	0,41
909	0,	34,16	32,41
809	0,	28,82	64,41
805	-11,40	6,58	64,00
804	11,40	6,58	64,00
706	0,	21,66	92,0
701	18,76	-10,83	92,0
802	0,	-13,16	64,00

703	-18,76	-10,83	92,0	
507	17,32	-10,00	117,41	
401	14,50	-8,37	121,5	
1011	-52,04	-18,50	-0,01	
911	-27,42	-15,83	31,99	
808	-24,96	-14,41	64,41	
1012	0,	37,00	-0,01	
912	0,	31,66	31,99	
812	0,	26,52	63,99	
709	0,	24,16	92,41	
656	0,	20,49	99,00	
705	-9,38	5,41	92,0	
704	9,38	5,41	92,0	
503	-15,15	-8,75	117,0	
702	0,	-10,83	92,0	
651	17,74	-10,25	99,00	
506	0,	17,49	117,0	
708	-20,93	-12,08	92,41	
653	-17,74	-10,25	99,00	
501	15,15	-8,75	117,0	
301	14,50	-8,37	150,0	
1111	-34,21	-19,75	-15,00	S
811	-22,79	-13,16	63,99	
1112	0,	39,50	-15,00	S
712	0,	21,66	91,99	

515	0,	20,49	117,00
508	-17,32	-10,00	117,41
514	-17,74	-10,25	117,00
403	-14,	-8,37	121,5
603	-16,01	-9,25	111,00
502	0,	-8,75	117,0
505	-7,575	4,37	117,0
513	17,74	-10,25	117,00
661	17,74	-15,25	99,00
601	16,01	-9,25	111,00
509	0,	19,99	117,41
406	0,	16,74	121,5
504	7,575	4,37	117,0
711	-18,76	-10,83	91,99
663	-17,74	-15,25	99,00
206	0,	16,74	165,0
303	-14,50	-8,37	150,0
306	0,	16,74	150,0
201	14,50	-8,37	165,0
512	0,	17,49	116,99
511	-15,15	-8,75	116,99
613	-16,01	-15,25	111,00
662	0,	-15,25	99,00
611	16,01	-15,25	111,00
106	0,	16,74	180,0

205	-7,25	4,18	165,0
206	7,25	4,18	165,0
203	-14,50	-8,37	165,0
101	14,50	-8,37	180,0
202	0,	-8,37	165,0
612	0,	-15,25	111,00
105	-7,25	4,18	180,0
104	7,25	4,18	180,0
103	-14,50	-8,37	180,0
102	0,	-8,37	180,0

JOINT RELEASES

1110	1111	1112	MOM X	MOM Y	MOM Z

MEMBER INCIDENCES

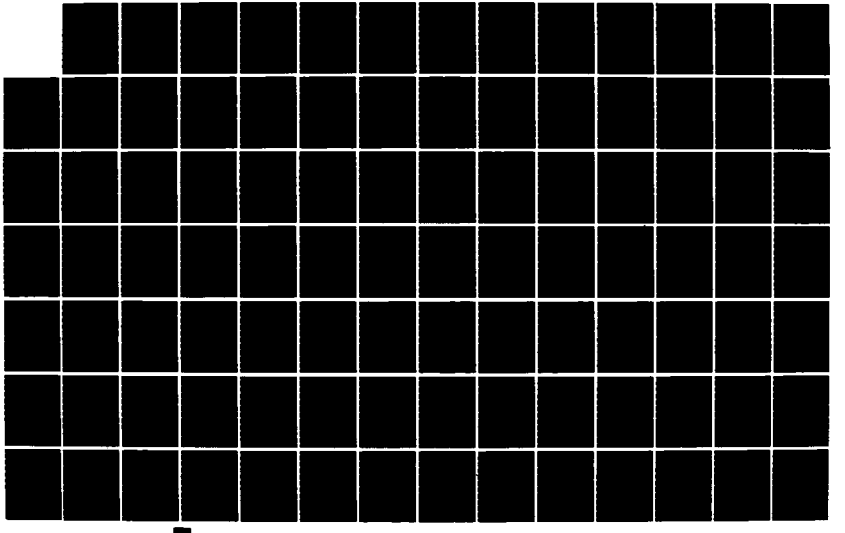
41	101	102
42	102	103
43	103	105
44	105	106
45	101	104
46	104	106
47	102	104
48	102	105
49	104	105
50	201	202
51	202	203
52	203	205

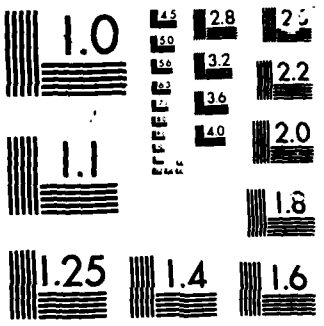
55	205	206
56	201	204
57	204	206
58	202	204
59	202	205
60	204	205
61	201	303
62	203	306
63	206	301
64	301	303
65	303	306
66	301	306
67	501	502
68	502	503
69	503	505
70	505	506
71	501	504
72	504	506
73	502	504
74	502	505
75	501	507
76	507	510
77	503	508
	508	511
	506	509

78	509	512
79	501	513
80	503	514
81	506	515
82	513	651
83	514	653
84	515	656
85	601	611
86	603	613
87	651	661
88	653	663
89	611	612
90	612	613
91	661	662
92	662	663
93	611	661
94	612	662
95	613	663
96	501	703
97	503	706
98	506	701
99	701	702
100	504	505
101	702	703
102	703	705

AD-A165 616 NATURAL FREQUENCY AND EARTHQUAKE ANALYSIS EAST COAST AIR COMBAT MANEUVERI..(U) CREST ENGINEERING INC TULSA OK SEP 76 27-771-99 CHES/NAVFAC-FPO-7611 2/7

UNCLASSIFIED N62477-76-C-0179 F/G 13/13 NL





MICROCOPY RESOLUTION TEST CHART

103	705	706
[illegible]	[illegible]	[illegible]
105	708	706
106	702	704
107	702	705
108	704	705
109	701	707
110	707	710
111	703	708
112	708	711
113	706	709
114	709	712
115	701	806
116	703	801
117	701	803
118	801	802
119	802	803
120	803	805
121	805	806
122	801	804
123	804	806
124	802	804
125	802	805
126	804	805
127	801	807

128	807	810
129	803	808
130	808	811
131	806	809
132	809	812
133	801	903
134	803	906
135	806	901
136	901	902
137	902	903
138	903	905
139	905	906
140	901	904
141	904	906
142	902	904
143	902	905
144	904	905
145	901	907
146	907	910
147	903	908
148	908	911
149	906	909
150	909	912
151	901	1002
152	903	1002

153	903	1005
154	906	1005
155	901	1004
156	906	1004
157	1001	1002
158	1002	1003
159	1003	1005
160	1005	1006
161	1001	1004
162	1004	1006
163	1002	1004
164	1002	1005
165	1004	1005
166	1001	1007
167	1007	1010
168	1003	1008
169	1008	1011
170	1006	1009
171	1009	1012
172	101	201
173	103	203
174	106	206
175	201	301
176	203	303
177	206	306

178	301	401
179	303	403
180	306	406
181	401	501
182	403	503
183	406	506
184	501	601
185	503	603
186	506	656
187	601	651
188	603	653
189	651	701
190	653	703
191	656	706
192	701	801
193	703	803
194	706	806
195	801	901
196	803	903
197	806	906
198	901	1001
199	903	1003
200	906	1006
201	401	510
202	403	511

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203       406       512
204       510       710
205       511       711
206       512       712
207       710       810
208       711       811
209       712       812
210       810       910
211       811       911
212       812       912
213       910       1010
214       911       1011
215       912       1012
216       1010      1110
217       1011      1111
218       1012      1112
MEMBER RELEASES
74 76 78 110 112 114 128 150 132  END MOM Y Z  END FORCE Y Z
146 148 150 167 169 171 END MOM Y Z  END FORCE Y Z
UNIT INCH LBS
MEMBER PROPERTIES PRISMATIC
41 TO 46 50 TO 55  AX 14.70  IX 1.25  IY 802.  IZ 40.2  SY 89.1  SZ 10.7
47 TO 49 56 TO 58  AX  7.06  IX .343  IY 82.5  IZ 18.2  SY 20.8  SZ 5.61
59 TO 64 71 72 79 TO 81 100 101 TO 105 99 -
        AX 19.24  IX 725.28  IY 361.64  IZ 361.64  SY 56.73  SZ 56.73
106 TO 108 -
```

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        AX 14,58  IX 558,82  IY 279,41  IZ 279,41  SY 43,83  SZ 43,83

124 TO 126 142 TO 144 163 TO 165 =
        AX 16,05  IX 745,72  IY 372,86  IZ 372,86  SY 53,26  SZ 53,26

89 TO 92 =
        AX 12,76  IX 211,48  IY 105,74  IZ 105,74  SY 24,52  SZ 24,52

85 TO 88 93 TO 95 =
        AX 26,27  IX 649,2   IY 324,6   IZ 324,6   SY 60,39  SZ 60,39

65 TO 70 151 TO 156 =
        AX 24,35  IX 1464,2  IY 732,1   IZ 732,1   SY 91,52  SZ 91,52

118 TO 123 136 TO 141 157 TO 162 =
        AX 27,49  IX 2106,88 IY 1053,44 IZ 1053,44 SY 117,05 SZ 117,05

96 TO 98 115 TO 117 133 TO 135 =
        AX 38,04  IX 3574,86 IY 1787,43 IZ 1787,43 SY 178,74 SZ 178,74

172 TO 180 =
        AX 91,11  IX 19182,8 IY 9591,4  IZ 9591,4  SY 639,43 SZ 639,43

201 TO 206 213 TO 215 =
        AX 221,29 IX 89816,8 IY 44908,4 IZ 44908,4  SY 2138,5 SZ 2138,5

207 TO 212 =
        AX 251,33 IX 100808, IY 50404,  IZ 50404,  SY 2400,2 SZ 2400,2

216 TO 218 =
        AX 136,46 IX 41260,8 IY 20630,4 IZ 20630,4 SY 1146,1 SZ 1146,1

181 TO 191 =
        AX 141,37 IX 71604,9 IY 35802,4 IZ 35802,4 SY 1556,6 SZ 1556,6

192 TO 200 =
        AX 71,47  IX 36995,4 IY 18497,7 IZ 18497,7 SY 804,25 SZ 804,25

82 TO 84 =
        AX 27,49  IX 2106,88 IY 1053,44 IZ 1053,44 SY 117,05 SZ 117,05

73 TO 78 109 TO 114 127 TO 132 145 TO 150 166 TO 171 =
        AX 50,0   IX 30000,  IY 30000,  IZ 30000,  SY 3000,  SZ 6000,

CONSTANTS

 E 30000000,  ALL

 DENSITY 0,284  41 TO 64 79 TO 95 65 66 99 TO 101 108 118 119 126 136 137 144 =
                157 158 165 172 TO 180
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[illegible] 73 [illegible] 114 127 TO 132 145 TO 150 166 TO 171
[illegible] 2[illegible] 213 TO 215
[illegible] 2[illegible] 216 TO 2[illegible]
[illegible] 1[illegible]
[illegible] 1[illegible]
[illegible] 6[illegible]
[illegible] 1[illegible]
DENSITY [illegible] 12[illegible] TO 123 138 TO 141 159 TO 162
DENSITY 0,445  124 125 142 143 163 164
DENSITY 0,380  153 TO 156
DENSITY 0,389  71 72 102 TO 105
DENSITY 0,386  96 11[illegible] 33
DENSITY 0,372  97 98 115 117 134 135
DENSITY 0,394  151 152
LOADING 'DEAD' 'VIBRATING IN THE X-DIRECTION'
DEAD LOAD X 1,0
LOADING LIST ALL
STIFFNESS ANALYSIS REDUCED
```

BANDWIDTH USING INITIAL JOINT NUMBERING

JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND
1	1110	0	2	1010	1	3	1007	1	4	910	2	5	1001	2
6	907	2	7	810	3	8	1002	3	9	1004	4	10	901	5
11	807	4	12	710	5	13	1003	5	14	1005	6	15	903	7
16	1006	7	17	906	8	18	902	8	19	904	9	20	806	10
21	801	11	22	707	10	23	510	11	24	1008	11	25	908	10
26	905	11	27	803	12	28	1009	12	29	909	12	30	809	10
31	805	11	32	804	12	33	706	13	34	701	14	35	802	14
36	703	15	37	507	14	38	401	15	39	1011	15	40	911	15
41	808	14	42	1012	14	43	912	14	44	812	14	45	709	12
46	656	13	47	705	14	48	704	15	49	503	16	50	702	16
51	651	17	52	506	18	53	708	17	54	653	18	55	501	19
56	301	18	57	1111	18	58	811	18	59	1112	17	60	712	16
61	515	15	62	508	13	63	514	14	64	403	15	65	603	16
66	502	17	67	505	18	68	513	17	69	661	18	70	601	19
71	509	19	72	406	20	73	504	21	74	711	21	75	663	21
76	206	20	77	303	21	78	306	22	79	201	23	80	512	20
81	511	19	82	613	17	83	662	14	84	611	15	85	106	9
86	205	10	87	204	11	88	203	11	89	101	10	90	202	11
91	612	9	92	105	7	93	104	8	94	103	6	95	102	6

THE MAXIMUM BANDWIDTH IS 23 AND OCCURES AT JOINT 201
THE AVERAGE BANDWIDTH IS 12.537
THE STANDARD DEVIATION OF THE BANDWIDTH IS 5.554

NEW JOINT ORDER LIST TO PRODUCE IMPROVED BANDING

1110	1010	1007	910	1001	907	810	1002	1004	901	807	710
1003	1005	903	1006	906	902	904	806	801	707	510	1008
908	905	803	1009	909	809	805	804	706	701	802	703
507	401	1011	911	808	1012	912	812	709	656	705	704
503	702	651	506	708	653	501	301	1111	811	1112	712
515	508	514	403	603	502	505	513	661	601	509	406
504	711	663	206	303	306	201	512	511	613	662	611
106	205	204	203	101	202	612	105	104	103	102	

BANDWIDTH AFTER INTERNALLY RENUMBERING STRUCTURE

JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND
1	1110	0	2	1010	1	3	1007	1	4	910	2	5	1001	2
6	907	2	7	810	3	8	1002	3	9	1004	4	10	901	5
11	807	4	12	710	5	13	1003	5	14	1005	6	15	903	7
16	1006	7	17	906	8	18	902	8	19	904	9	20	806	10
21	801	11	22	707	10	23	510	11	24	1008	11	25	908	10
26	905	11	27	803	12	28	1009	12	29	909	12	30	809	10
31	805	11	32	804	12	33	706	13	34	701	14	35	802	14
36	703	15	37	507	14	38	401	15	39	1011	15	40	911	15
41	808	14	42	1012	14	43	912	14	44	812	14	45	709	12
46	656	13	47	705	14	48	704	15	49	503	16	50	702	16
51	651	17	52	506	18	53	708	17	54	653	18	55	501	19
56	301	18	57	1111	18	58	811	18	59	1112	17	60	712	16
61	515	15	62	508	13	63	514	14	64	403	15	65	603	16
66	502	17	67	505	18	68	513	17	69	661	18	70	601	19
71	509	19	72	406	20	73	504	21	74	711	21	75	663	21
76	206	20	77	303	21	78	306	22	79	201	23	80	512	20
81	511	19	82	613	17	83	662	14	84	611	15	85	106	9
86	205	10	87	204	11	88	203	11	89	101	10	90	202	11
91	612	9	92	105	7	93	104	8	94	103	6	95	102	6

THE MAXIMUM BANDWIDTH IS 23 AND OCCURES AT JOINT 201
THE AVERAGE BANDWIDTH IS 12,537
THE STANDARD DEVIATION OF THE BANDWIDTH IS 5,554

TIME FOR CONSISTENCY CHECKS 0,78 SECONDS.
TIME TO GENERATE 178 ELEMENT STIF. MATRICES 1,30 SECONDS.
TIME TO PROCESS MEMBER RELEASES 0,06 SECONDS
TIME TO ASSEMBLE THE STIFFNESS MATRIX 3,33 SECONDS
DEAD LOAD APPLIED TO JOINT 1110 5549,719 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 1010 25938,352 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 1007 28,938 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 910 42208,660 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 1001 18962,758 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 907 28,938 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 810 40924,648 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 1002 10609,203 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 1004 11588,656 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 901 43568,656 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 807 28,938 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 710 35021,695 POUNDS ✓

DEAD LOAD APPLIED TO JOINT	1006	19787,609 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	906	43988,242 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	902	4918,473 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	904	5904,473 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	806	40996,000 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	801	40759,152 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	707	28,938 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	510	18803,129 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	1008	28,938 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	908	28,938 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	905	5904,473 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	803	40408,461 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	1009	28,890 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	909	28,890 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	809	28,890 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	805	4908,734 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	804	4908,734 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	706	28557,880 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	701	30846,754 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	802	4064,820 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	703	26883,199 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	507	28,938 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	401	9896,918 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	1011	25938,352 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	911	42208,660 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	808	28,938 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	1012	25938,480 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	912	42208,527 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	812	40924,652 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	709	28,890 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	656	15290,152 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	705	2854,658 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	704	2854,658 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	503	11373,055 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	702	2637,746 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	651	12046,922 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	506	18550,715 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	708	28,938 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	653	12046,922 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	501	11452,157 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	301	9725,125 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	1111	5549,719 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	811	40924,648 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	1112	5549,461 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	712	35022,590 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	515	941,528 POUNDS ✓
DEAD LOAD APPLIED TO JOINT	508	28,938 POUNDS ✓

```
DEAD LOAD APPLIED TO JOINT 514          941,299 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 403         10014,379 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 603         10669,531 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 502          2617,854 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 505          3031,822 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 513           941,299 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 661          1152,264 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 601         10669,531 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 509            28,890 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 406          9896,340 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 504          3031,822 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 711         35021,695 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 663          1152,264 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 206          6454,367 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 303          9725,922 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 306          9724,988  JUNDS ✓
DEAD LOAD APPLIED TO JOINT 201          6454,211 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 512         18803,172 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 511         18864,285 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 613          1159,413 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 662          1308,612 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 611          1159,413 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 106          3055,301 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 205          1075,113 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 204          1075,113 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 203          6454,094 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 101          3055,027 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 202          1075,139 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 612          1233,361 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 105          1075,113 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 104          1075,113 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 103          3055,027 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 102          1075,139 POUNDS ✓
TIME TO PROCESS   95 JOINTS                1,95 SECONDS,
                                                          ==========================================
                                                          GROSS WEIGHT OF STRUCTURE    1184405,000 POUNDS
                                                          ==========================================

TIME TO SOLVE WITH   32 PARTITIONS        12,14 SECONDS
TIME TO PROCESS    95 JOINT DISPLACEMENTS  0,16 SECONDS,
TIME TO PROCESS  178 MEMBER  DISTORTIONS   2,00 SECONDS,
TIME FOR STATICS CHECK                     0,84 SECONDS,

LIST DISPLACEMENTS ALL
```

****
RESULTS OF LATEST ANALYSES
****

PROBLEM = ACMR TITLE = DYNAMIC ANALYSIS OF TRIPOD STRUCTURE AT 105 FT WATER --U.S.NAVY

ACTIVE UNITS INCH LB RAD FAHR SEC LBM

LOADING = DEAD VIBRATING IN THE X-DIRECTION

RESULTANT JOINT DISPLACEMENTS = SUPPORTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1110	GLOBAL	0.0	0.0	0.0	0.0048336	0.0177109	-0.0010835
1111	GLOBAL	0.0	0.0	0.0	-0.0048769	0.0178389	-0.0009806
1112	GLOBAL	0.0	0.0	0.0	-0.0001279	0.0095566	0.0005113

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1010	GLOBAL	2.6651459	-0.6137309	0.3710058	0.0009219	0.0086170	-0.0008914
1007	GLOBAL	3.3567214	0.2714761	-0.3967080	-0.0014025	0.0033446	-0.0000761
910	GLOBAL	4.0031834	0.0312270	0.4237088	-0.0016614	0.0012118	-0.0006543
1001	GLOBAL	3.3509488	0.2610421	-0.3288583	-0.0007675	0.0029776	0.0000451
907	GLOBAL	4.1775959	0.1272576	-0.2273594	-0.0005800	0.0021647	0.0000547
810	GLOBAL	4.6179895	0.3094823	0.4134641	-0.0000053	0.0009413	-0.0004019
1002	GLOBAL	3.4867401	0.0248294	-0.0423702	0.0001388	0.0002024	0.0006782
1004	GLOBAL	3.5445587	0.1169334	-0.1214807	-0.0007127	0.0014377	0.0003623
901	GLOBAL	4.1607189	0.1259617	-0.1806650	-0.0000907	0.0018856	0.0001480
807	GLOBAL	4.6050006	0.1414164	-0.0038395	-0.0001648	0.0005955	0.0000408
710	GLOBAL	4.6395178	0.2597544	0.3544977	0.0003744	-0.0006143	-0.0002262
1003	GLOBAL	3.3358259	-0.2160825	0.5383414	0.0009198	0.0032449	0.0001863

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1005	GLOBAL	3,5445842	-0,0675365	0,1652127	0,0007681	0,0015559	0,0004046
903	GLOBAL	4,2560587	-0,1766301	0,1852736	0,0002772	0,0018991	0,0003738
1006	GLOBAL	3,1475515	0,0271767	-0,0125966	-0,0001808	0,0045241	0,0008348
906	GLOBAL	3,9369707	0,0625505	-0,0069480	0,0000945	0,0021240	0,0004022
902	GLOBAL	4,2105827	0,0315625	-0,0005005	0,0000359	-0,0000551	0,0005261
904	GLOBAL	4,0810976	0,1113654	-0,1315830	-0,0006199	0,0009234	0,0003864
806	GLOBAL	4,4975967	0,0625377	0,0150685	-0,0004436	0,0014424	0,0000026
801	GLOBAL	4,6002502	0,1390961	0,0093409	-0,0000747	0,0005455	0,0000580
707	GLOBAL	4,5913649	0,1205552	0,1839420	0,0002658	-0,0004925	-0,0001304
510	GLOBAL	4,4275618	0,1024383	0,2700714	0,0004798	-0,0006220	-0,0002182
1008	GLOBAL	3,5451128	-0,2508977	0,4108524	0,0014729	0,0035648	0,0000807
908	GLOBAL	4,2758265	-0,1849595	0,2296465	0,0006567	0,0021171	0,0003014
905	GLOBAL	4,0816450	-0,0472547	0,1276850	0,0005400	0,0010158	0,0006482
803	GLOBAL	4,6673460	-0,1386299	-0,0233406	-0,0008552	0,0005098	0,0004104
1009	GLOBAL	3,1447344	0,0281827	-0,0179999	-0,0001807	0,0058477	0,0010540
909	GLOBAL	3,9353504	0,0616255	-0,0041963	0,0000942	0,0031841	0,0005777
809	GLOBAL	4,5046167	0,0657162	0,0019242	-0,0004455	0,0014074	-0,0000032
805	GLOBAL	4,5443611	-0,0152424	0,0100772	0,0006149	-0,0000705	0,0005230
804	GLOBAL	4,5440340	0,0969822	-0,0080191	-0,0002976	0,0003289	0,0005520
706	GLOBAL	4,9145756	0,2718828	0,0403952	-0,0002490	0,0000157	-0,0007834
701	GLOBAL	4,5950384	0,1256479	0,1749715	0,0001489	-0,0004251	-0,0001527
802	GLOBAL	4,5353931	0,0405804	0,0010931	-0,0001820	-0,0003434	0,0005736
703	GLOBAL	4,6202393	0,3547885	-0,2152577	-0,0006080	-0,0004395	-0,0000521
507	GLOBAL	4,4216194	0,0859720	0,2492636	0,0004049	-0,0005612	-0,0002505
401	GLOBAL	4,4004383	0,0793602	0,2560577	0,0003927	-0,0004726	-0,0002445
1011	GLOBAL	2,6864022	0,6225640	-0,3751124	-0,0009388	0,0087739	-0,0007948
911	GLOBAL	4,0417252	0,0103714	-0,4327606	0,0016023	0,0010980	-0,0005287
408	GLOBAL	4,6760483	-0,1451780	0,0024551	-0,0006084	0,0006404	0,0003671
1012	GLOBAL	1,5991173	0,0245886	0,0041082	-0,0001543	0,0075617	0,0001453
912	GLOBAL	4,0642223	0,0587954	0,0098266	0,0000672	0,0044281	-0,0003374
812	GLOBAL	5,2147398	0,0652513	0,0109082	-0,0004049	0,0015078	-0,0008141
709	GLOBAL	4,9381657	0,2721060	0,0327597	-0,0002491	-0,0004051	-0,0008531
656	GLOBAL	4,8953619	0,2848247	0,0440516	-0,0000725	-0,0002054	-0,0008835
705	GLOBAL	4,7363529	0,3318510	-0,0888811	0,0004759	-0,0009914	-0,0007027
704	GLOBAL	4,7502356	0,1873512	0,1081849	0,0000260	-0,0007449	-0,0007993
503	GLOBAL	4,4731960	0,3467315	-0,2421835	-0,0000108	-0,0004385	-0,0002180
702	GLOBAL	4,6086682	0,2594773	-0,0161144	0,0000450	-0,0010746	-0,0006643
651	GLOBAL	4,5538540	0,1199096	0,1947321	0,0000946	-0,0005113	-0,0001756
506	GLOBAL	4,7553720	0,2706572	0,0451259	0,0001461	-0,0007144	-0,0011283
708	GLOBAL	4,6172457	0,3591055	-0,2175724	-0,0006952	-0,0004897	-0,0000355
653	GLOBAL	4,5804014	0,3785481	-0,2372136	-0,0000805	-0,0004562	-0,0001494
501	GLOBAL	4,4277849	0,0946935	0,2406576	0,0003202	-0,0005123	-0,0002667
301	GLOBAL	4,4979506	0,0169744	0,2491922	0,0000877	-0,0004492	-0,0005187
811	GLOBAL	4,5959787	-0,1492488	-0,4236566	-0,0006321	0,0010270	-0,0002088

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
712	GLOBAL	5,2235794	0,2690465	0,0448387	-0,0004042	-0,0007817	-0,0011877
515	GLOBAL	4,7962360	0,2707062	0,0456825	0,0000103	-0,0006233	-0,0011159
508	GLOBAL	4,4693604	0,3533713	-0,2937381	-0,0002054	-0,0005506	-0,0001809
514	GLOBAL	4,4698000	0,3554012	-0,2534372	-0,0004842	0,0005830	-0,0001984
403	GLOBAL	4,4450836	0,3464944	-0,2937041	-0,0001664	-0,0005409	-0,0001666
503	GLOBAL	4,5063685	0,3568664	-0,2669873	0,0001489	-0,0004821	-0,0002225
502	GLOBAL	4,4509182	0,2510754	-0,0234847	0,0001984	-0,0018841	-0,0008731
505	GLOBAL	4,5826092	0,3270940	-0,1241485	0,0005277	-0,0013987	-0,0008073
513	GLOBAL	4,4238777	0,0871951	0,2102954	0,0008280	0,0004407	-0,0002156
601	GLOBAL	4,5658350	0,1199507	0,2031454	-0,0002287	-0,0006204	0,0003315
603	GLOBAL	4,4693556	0,1088399	0,2247269	0,0001990	-0,0005837	-0,0002278
509	GLOBAL	4,7857122	0,2703503	0,0495737	0,0001461	-0,0009257	-0,0011633
406	GLOBAL	4,7046070	0,2621595	0,0437027	0,0001677	-0,0008522	-0,0011889
504	GLOBAL	4,5818920	0,1765951	0,1468620	-0,0000578	-0,0013752	-0,0010652
711	GLOBAL	4,7132111	0,1318598	-0,3977242	-0,0008600	-0,0004202	-0,0000632
663	GLOBAL	4,5676757	0,3785069	-0,2549823	0,0004385	-0,0006097	-0,0002960
206	GLOBAL	4,5726471	0,1512271	0,0447244	0,0002214	-0,0012854	-0,0010679
303	GLOBAL	4,5199251	0,3197930	-0,2855056	0,0002770	-0,0004629	-0,0004463
306	GLOBAL	4,7550146	0,1870638	0,0436592	0,0002122	-0,0005628	-0,0010947
201	GLOBAL	4,5014727	-0,0065052	0,2467685	0,0001701	-0,0012945	-0,0005719
512	GLOBAL	4,7694540	0,2714600	0,0452480	0,0001764	-0,0011301	-0,0012396
511	GLOBAL	4,4789906	0,3536905	-0,3137893	-0,0003165	-0,0007959	-0,0001173
613	GLOBAL	4,4839058	0,3568903	-0,2436778	-0,0003922	-0,0006550	-0,0004359
602	GLOBAL	4,5673962	0,2140247	-0,0268950	0,0001112	-0,0007348	-0,0009237
611	GLOBAL	4,4420757	0,1088162	0,1915716	0,0004444	-0,0006788	0,0005052
106	GLOBAL	4,5503580	0,1033727	0,0447323	0,0002858	-0,0012213	-0,0010577
205	GLOBAL	4,4390165	0,2167305	-0,1190060	0,0002660	-0,0015282	-0,0007956
204	GLOBAL	4,4389791	0,0752571	0,1437771	0,0001441	-0,0015145	-0,0009040
203	GLOBAL	4,3242495	0,2709542	-0,2842528	0,0002187	-0,0013327	-0,0004855
101	GLOBAL	4,0997915	-0,0405190	0,2466751	0,0001867	-0,0010668	-0,0005818
202	GLOBAL	4,5132582	0,1449592	-0,0171024	0,0001932	-0,0016502	-0,0008979
612	GLOBAL	4,4830494	0,1955844	-0,0268956	0,0000982	-0,0007916	-0,0009323
105	GLOBAL	4,2258282	0,1743597	-0,1261463	0,0002571	-0,0016021	-0,0008323
104	GLOBAL	4,2258434	0,0316717	0,1456409	0,0001029	-0,0015498	-0,0008239
103	GLOBAL	4,1010675	0,2450500	-0,2841673	0,0001170	-0,0012226	-0,0004983
102	GLOBAL	4,1008224	0,1030183	-0,0120472	0,0001347	-0,0017134	-0,0009192

FINIS=

```
ASP JOB NO. = 1353                                    DATE = 76.189

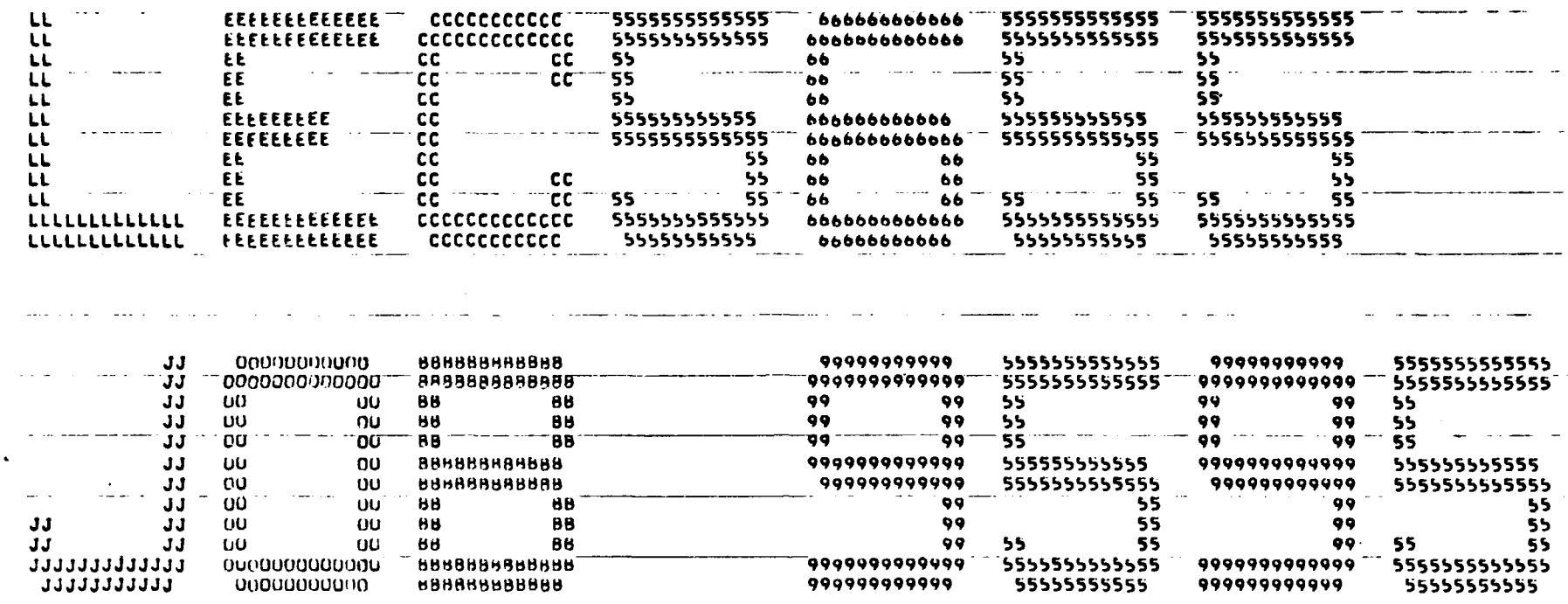
//CEC5655 JOB (0044270500277710IPCETENG96),'CHERN      ',PRTY=4,CLASS=D,C1353

     E APSED TIME ON MAIN = A        = 014.92, START TIME = 10.27.18

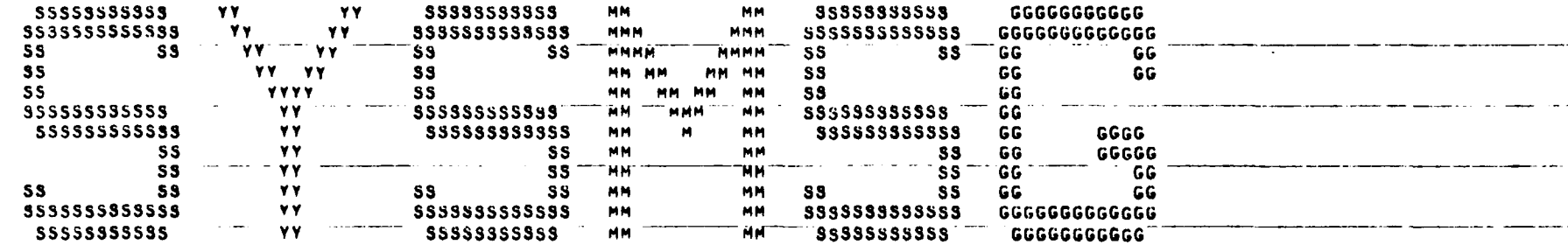
     DDNAME = SYSMSG                    PRINTED ON RM027PR1, LINES = 000123
     DDNAME = FT06F001                  PRINTED ON RM027PR1, LINES = 000798
     LINES OUTPUT FOR THIS JOB = 000921

   CARDS FROM MAIN FOR THIS JOB = NONE
```

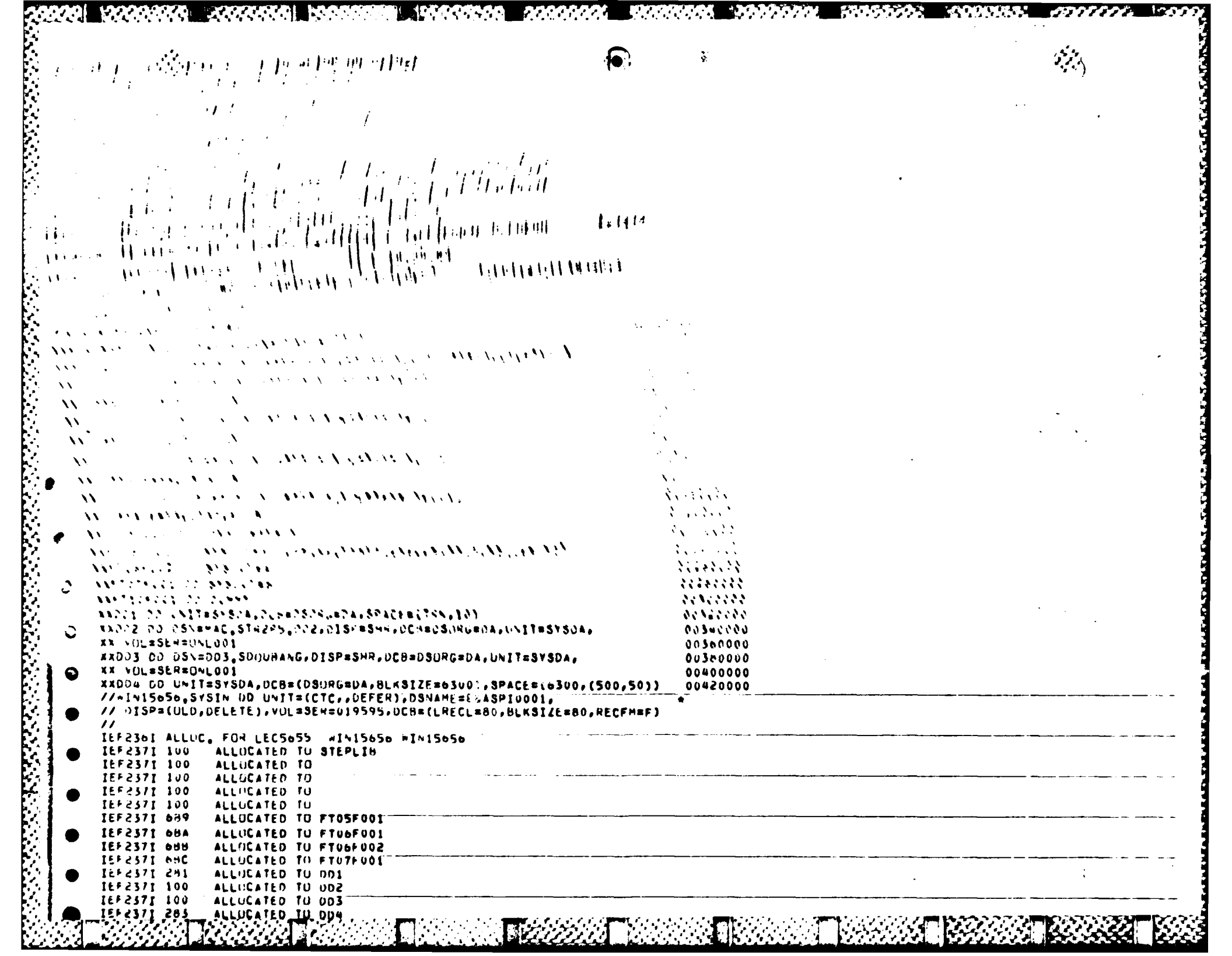
CHERN 00442705 9595 LEC5655 SYSMSG



A-2 Y-DIRECTION



CHERN 00442705 9595 LEC5655 SYSMSG



```
XXDD1 DD UNIT=SYSDA,DCB=DSORG=DA,SPACE=(TRN,10)                          00320000
XXDD2 DD DSN=MAC,STR2P5,DD2,DISP=SHR,DCB=DSORG=DA,UNIT=SYSDA,            00340000
XX VOL=SER=ONL001                                                        00360000
XXDD3 DD DSN=DD3,SDOUBANG,DISP=SHR,DCB=DSORG=DA,UNIT=SYSDA,              00380000
XX VOL=SER=ONL001                                                        00400000
XXDD4 DD UNIT=SYSDA,DCB=(DSORG=DA,BLKSIZE=6300),SPACE=(6300,(500,50))    00420000
//WIN15656,SYSIN DD UNIT=(CTC,,DEFER),DSNAME=EBASPI0001,                 *
// DISP=(OLD,DELETE),VOL=SER=019595,DCB=(LRECL=80,BLKSIZE=80,RECFM=F)
//
IEF236I ALLOC. FOR LEC5655  WIN15656 WIN15656
IEF237I 100    ALLOCATED TO STEPLIB
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 689    ALLOCATED TO FT05F001
IEF237I 68A    ALLOCATED TO FT06F001
IEF237I 68B    ALLOCATED TO FT06F002
IEF237I 68C    ALLOCATED TO FT07F001
IEF237I 281    ALLOCATED TO DD1
IEF237I 100    ALLOCATED TO DD2
IEF237I 100    ALLOCATED TO DD3
IEF237I 283    ALLOCATED TO DD4
```

```
 ISV40 JOB ORIGIN FROM GROUP=RM027    , DSP=CR , DEVICE=RM027RD1, 0A3
//LEC5655 JOB (00442705002777101PCETENG96),'CHERN      ',PRTY=4,CLASS=D,C
// TIME=(060,001),REGION=500K
//*MAIN  LINES=(080,*),CARDS=(00,C),SYSTEM=A,FAILURE=RESTART
//*IN15656 EXEC *IN15656
//*IN15656.SYSIN DD *
/*



AMDS01 JOB 9595 (LEC5655 ) IN SETUP ON MAIN=A
AMDS02 STEPLIB  USING D ONL001 ON 100
 LEC5655  IEF403I LEC5655  STARTED    TIME=18.00.55
 LEC5655  IEF234E D 68C,ASP68C
*LEC5655 *89 IECASP0 68A IS LEC5655  A *IN15656*IN15656FT06F001
*LEC5655 *03 IECASP0 6R9 IS LEC5655    *IN15656*IN15656ASPI0001
 LEC5655  IEC202E K 689,019595,NL,LEC5655,*IN15656
 LEC5655  TI=LEC5655 CC=00442705 P=2777101 P J=CETENG96 N=CHERN       A=9595
 LEC5655  IEF404I LEC5655  ENDED       TIME=18.08.54
//LEC5655 JOB (00442705002777101PCETENG96),'CHERN      ',PRTY=4,CLASS=D,*
// TIME=(060,00),REGION=500K
//*IN15656 EXEC *IN15656
XX*IN15656 EXEC PGM=IDDICEX5,PARM=00000                                  00020000
XXSTEPLIB DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,DSN=MAC.ICESV2P3         00040000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00060000
XX DSN=ICES.STRUDL.FIX                                                   00080000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00100000
XX DSNAME=MAC.SDDUBANG                                                   00120000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00140000
XX DSNAME=MAC.STR2P5                                                     00160000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00180000
XX DSNAME=MAC.TABLE2P5                                                   00200000
XXFT05F001 DD DDNAME=SYSIN                                               00220000
XXFT06F001 DD SYSOUT=A,DCB=(RECFM=FB,LRECL=133,BLKSIZE=798)              00240000
XXFT06F002 DD SYSOUT=A                                                   00260000
XXFT07F001 DD SYSOUT=B                                                   00280000
XXFT10F001 DD DUMMY                                                      00300000
XXDD1 DD UNIT=SYSDA,DCB=DSORG=DA,SPACE=(TRK,10)                          00320000
XXDD2 DD DSN=MAC.STR2P5,DD2,DISP=SHR,DCB=DSORG=DA,UNIT=SYSDA,            00340000
XX VOL=SER=ONL001                                                        00360000
XXDD3 DD DSN=DD3,SDDUBANG,DISP=SHR,DCB=DSORG=DA,UNIT=SYSDA,              00380000
XX VOL=SER=ONL001                                                        00400000
XXDD4 DD UNIT=SYSDA,DCB=(DSORG=DA,BLKSIZE=6300),SPACE=(6300,(500,50))    00420000
//*IN15656.SYSIN DD UNIT=(CTC,,DEFER),DSNAME=&&ASPI0001,          *
// DISP=(OLD,DELETE),VOL=SER=019595,DCB=(LRECL=80,BLKSIZE=80,RECFM=F)
//
IEF236I ALLOC. FOR LEC5655  *IN15656 *IN15656
IEF237I 100    ALLOCATED TO STEPLIB
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 689    ALLOCATED TO FT05F001
IEF237I 68A    ALLOCATED TO FT06F001
IEF237I 688    ALLOCATED TO FT06F002
IEF237I 68C    ALLOCATED TO FT07F001
IEF237I 281    ALLOCATED TO DD1
IEF237I 100    ALLOCATED TO DD2
IEF237I 100    ALLOCATED TO DD3
IEF237I 283    ALLOCATED TO DD4
```

```
IEF142I - STEP WAS EXECUTED - COND CODE 0000
IEF285I   ...ICE3V2P3                                    KEPT
IEF285I      SER NOS= ONL001,
IEF285I   ...S,STRUDL,FIX                                KEPT
IEF285I   VOL SER NOS= ONL001,
IEF285I   MAC,SOOUBANG                                   KEPT
IEF285I   VOL SER NOS= ONL001,
IEF285I   MAC,STR2PS                                     KEPT
IEF285I   VOL SER NOS= ONL001,
IEF285I   MAC,TABLE2PS                                   KEPT
IEF285I   VOL SER NOS= ONL001,
IEF285I   SYS76188,T172139,RV001,LEC5655,ASPI0001        DELETED
IEF285I   VOL SER NOS= 019595,
IEF285I   SYS76188,T172139,RV001,LEC5655,ASPOA001        DELETED
IEF285I   VOL SER NOS= ASP6MA,
IEF285I   SYS76188,T172139,RV001,LEC5655,R0006262        DELETED
IEF285I   VOL SER NOS= SCR007,
IEF285I   MAC,STR2PS,DD2                                 KEPT
IEF285I   VOL SER NOS= ONL001,
IEF285I   DD3,SOOUBANG                                   KEPT
IEF285I   VOL SER NOS= ONL001,
IEF285I   SYS76188,T172139,RV001,LEC5655,R0006263        DELETED
IEF285I   VOL SER NOS= SCR005,
IEF373I STEP /*IN15656/ START 76188,1800
IEF374I STEP /*IN15656/ STOP  76188,1808 CPU   0MIN 27.66SEC STOR VIRT 512K
$$$
```

```
**********************************************
*                                            *
*     MCDUNNELL-ECI ICES EXECUTIVE SYSTEM    *
*                                            *
*        MAC REL, 2,3 - RELEASED 2/5/73      *
*          TIME=18,01,01,  7/06/76           *
*                                            *
**********************************************
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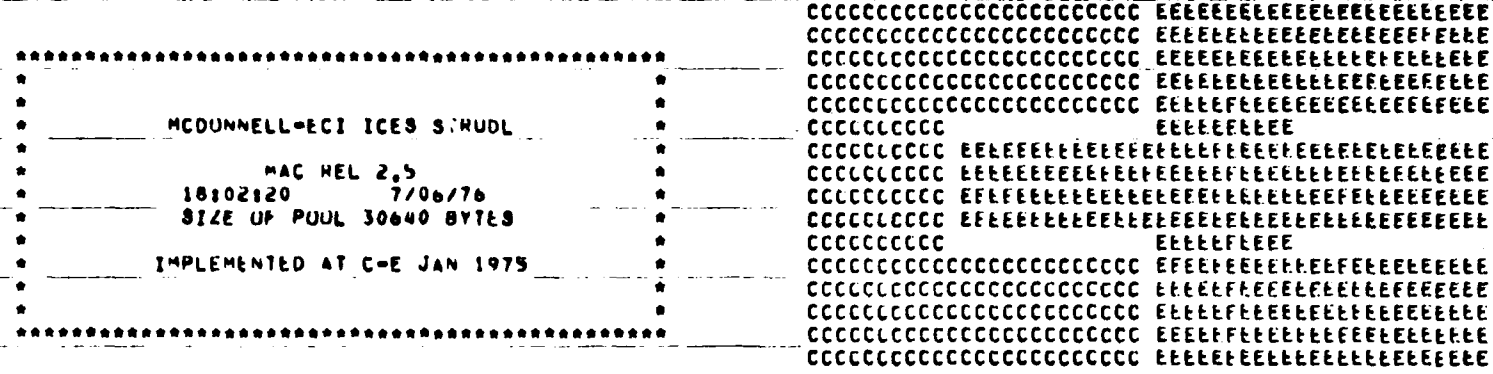
STRUDL 'ACMR' 'DYNAMIC ANALYSIS OF TRIPOD STRUCTURE AT 105 FT WATER --U.S.NAVY'



DUMP TIME

TYPE SPACE FRAME

UNIT FEET

JOINT COORDINATES

1110	34.21	-19.75	-15.00	S
1010	32.04	-18.50	-0.01	
1007	34.21	-19.75	0.41	
910	27.42	-15.83	31.99	
1001	32.04	-18.50	0.0	
907	29.59	-17.08	32.41	
810	22.79	-13.16	63.99	
1002	0.	-18.50	0.0	
1004	16.02	9.25	0.0	
901	27.42	-15.83	32.00	

807	24,96	-14,41	64,41
710	18,76	-10,83	91,99
1003	-32,04	-18,50	0,0
1005	-16,02	9,25	0,0
903	-27,42	-15,83	32,00
1006	0,	37,00	0,0
906	0,	31,66	32,00
902	0,	-15,83	32,00
904	13,71	7,91	32,00
806	0,	26,32	64,00
801	22,79	-13,16	64,00
707	20,93	-12,08	92,41
510	15,15	-8,75	116,99
1008	-34,21	-19,75	0,41
908	-29,59	-17,08	32,41
905	-13,71	7,91	32,00
803	-22,79	-13,16	64,00
1009	0,	39,50	0,41
909	0,	34,16	32,41
809	0,	28,82	64,41
805	-11,40	6,58	64,00
804	11,40	6,58	64,00
706	0,	21,66	92,0
701	18,76	-10,83	92,0
802	0,	-13,16	64,00

703	-18,78	-10,83	92,0	
507	17,32	-10,00	117,41	
401	14,50	-8,37	121,5	
1011	-32,04	-14,50	-0,01	
911	-27,42	-15,83	31,99	
810	-24,98	-14,41	64,41	
1012	0,	37,00	-0,01	
912	0,	31,66	31,99	
		26,32	63,99	
709	0,	24,16	92,41	
656	0,	20,49	99,00	
705	-9,38	5,41	92,0	
704	9,38	5,41	92,0	
503	-15,15	-8,75	117,0	
702	0,	-10,83	92,0	
651	17,74	-10,25	99,00	
506	0,	17,49	117,0	
708	-20,93	-12,08	92,41	
653	-17,74	-10,25	99,00	
501	15,15	-8,75	117,0	
301	14,50	-8,37	150,0	
1111	-34,21	-19,75	-15,00	S
811	-22,79	-13,16	63,99	
1112	0,	39,50	-15,00	S
712	0,	21,66	91,99	

515	0,	20,49	117,00
508	-17,32	-10,00	117,41
514	-17,74	-10,25	117,00
403	-14,	-8,37	121,5
603	-16,01	-9,25	111,00
502	0,	-8,75	117,0
505	-7,575	4,37	117,0
513	17,74	-10,25	117,00
661	17,74	-15,25	99,00
601	16,01	-9,25	111,00
509	0,	19,99	117,41
406	0,	16,74	121,5
504	7,575	4,37	117,0
711	-18,76	-10,83	91,99
663	-17,74	-15,25	99,00
206	0,	16,74	165,0
201	14,50	-8,37	165,0
303	-14,50	-8,37	150,0
306	0,	16,74	150,0
512	0,	17,49	116,99
511	-15,15	-8,75	116,99
613	-16,01	-15,25	111,00
662	0,	-15,25	99,00
611	16,01	-15,25	111,00
205	-7,25	4,18	165,0

204	7,25	4,18	165,0
202	0,	-8,37	165,0
203	-14,50	-8,37	165,0
612	0,	-15,25	111,00
101	14,50	-8,37	180,0
102	0,	-8,37	180,0
103	-14,50	-8,37	180,0
104	7,25	4,18	180,0
105	-7,25	4,18	180,0
106	0,	16,74	180,0

JOINT RELEASES

1110	1111	1112	MOM X	MOM Y	MOM Z

MEMBER INCIDENCES

41	101	102
42	102	103
43	103	105
44	105	106
45	101	104
46	104	106
47	102	104
48	102	105
49	104	105
50	201	202
51	202	203
52	203	205

53	205	206
54	201	204
55	204	206
56	202	204
57	202	205
58	204	205
59	201	303
60	203	306
61	206	301
62	301	303
63	303	306
64	301	306
65	501	502
66	502	503
67	503	505
68	505	506
69	501	504
70	504	506
71	502	504
72	502	505
73	501	507
74	507	510
75	503	508
76	508	511
77	506	509

78	509	512
79	501	513
80	503	514
81	506	515
82	513	651
83	514	653
84	515	656
85	601	611
86	603	613
87	651	661
88	653	663
89	611	612
90	612	613
91	661	662
92	662	663
93	611	661
94	612	662
95	613	663
96	501	703
97	503	706
98	506	701
99	701	702
100	504	505
101	702	703
102	703	705

103	705	706
104	701	704
105	704	706
106	702	704
107	702	705
108	704	705
109	701	707
110	707	710
111	703	708
112	708	711
113	706	709
114	709	712
115	701	806
116	703	801
117	701	803
118	801	802
119	802	803
120	803	805
121	805	806
122	801	804
123	804	806
124	802	804
125	802	805
126	804	805
127	801	807

128	807	810
129	803	808
130	808	811
131	806	809
132	809	812
133	801	903
134	803	906
135	806	901
136	901	902
137	902	903
138	903	905
139	905	906
140	901	904
141	904	906
142	902	904
143	902	905
144	904	905
145	901	907
146	907	910
147	903	908
148	908	911
149	906	909
15'	909	912
151	901	1002
152	903	1002

153	903	1005
154	906	1005
155	901	1004
156	906	1004
157	1001	1002
158	1002	1003
159	1003	1005
160	1005	1006
161	1001	1004
162	1004	1006
163	1002	1004
164	1002	1005
165	1004	1005
166	1001	1007
167	1007	1010
168	1003	1008
169	1008	1011
170	1006	1009
171	1009	1012
172	101	201
173	103	203
174	106	206
175	201	301
176	203	303
177	206	306

178	301	401
179	303	403
180	306	406
181	401	501
182	403	503
183	406	506
184	501	601
185	503	603
186	506	656
187	601	651
188	603	653
189	651	701
190	653	703
191	656	706
192	701	801
193	703	803
194	706	806
195	801	901
196	803	903
197	806	906
198	901	1001
199	903	1003
200	906	1006
201	401	510
202	403	511

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203      406      512
204      510      710
205      511      711
206      512      712
207      710      810
208      711      811
209      712      812
210      810      910
211      811      911
212      812      912
213      910      1010
214      911      1011
215      912      1012
216      1010     1110
217      1011     1111
218      1012     1112
MEMBER RELEASES
74 76 78 110 112 114 128 130 132  END MOM Y Z  END FORCE Y Z
146 148 150 167 169 171 END MOM Y Z  END FORCE Y Z
UNIT INCH LBS
MEMBER PROPERTIES PRISMATIC
41 TO 46 50 TO 55  AX 14,70  IX 1,25  IY 802,  IZ 40,2  SY 89,1  SZ 10,7
47 TO 49 56 TO 58  AX  7,06  IX ,343  IY 82,5  IZ 18,2  SY 20,8  SZ 5,61
59 TO 64 71 72 79 TO 81 100 101 TO 105 99 •
          AX 19,24  IX 725,28  IY 361,64  IZ 361,64  SY 56,73  SZ 56,73
106 TO 108 •
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        AX 14.58  IX 558.82  IY 279.41  IZ 279.41  SY 43.83  SZ 43.83

124 TO 126 142 TO 144 163 TO 165 =
        AX 16.05  IX 745.72  IY 372.86  IZ 372.86  SY 53.26  SZ 53.26

89 TO 92 =
        AX 12.76  IX 211.48  IY 105.74  IZ 105.74  SY 24.52  SZ 24.52

85 TO 88 93 TO 95 =
        AX 26.27  IX 649.2   IY 324.6   IZ 324.6   SY 60.39  SZ 60.39

65 TO 70 151 TO 156 =
        AX 24.35  IX 1464.2  IY 732.1   IZ 732.1   SY 91.52  SZ 91.52

118 TO 123 136 TO 141 157 TO 162 =
        AX 27.49  IX 2106.88 IY 1053.44 IZ 1053.44 SY 117.05 SZ 117.05

96 TO 98 115 TO 117 133 TO 135 =
        AX 38.04  IX 3574.86 IY 1787.43 IZ 1787.43 SY 178.74 SZ 178.74

172 TO 180 =
        AX 91.11  IX 19182.8 IY 9591.4  IZ 9591.4  SY 639.43 SZ 639.43

201 TO 206 213 TO 215 =
        AX 221.29 IX 89816.8 IY 44908.4 IZ 44908.4  SY 2138.5 SZ 2138.5

207 TO 212 =
        AX 251.33 IX 100808. IY 50404.  IZ 50404.  SY 2400.2 SZ 2400.2

216 TO 218 =
        AX 136.46 IX 41260.8 IY 20630.4 IZ 20630.4 SY 1146.1 SZ 1146.1

181 TO 191 =
        AX 141.37 IX 71604.9 IY 35802.4 IZ 35802.4 SY 1556.6 SZ 1556.6

192 TO 200 =
        AX 71.47  IX 36995.4 IY 18497.7 IZ 18497.7 SY 804.25 SZ 804.25

82 TO 84 =
        AX 27.49  IX 2106.88 IY 1053.44 IZ 1053.44 SY 117.05 SZ 117.05

73 TO 78 109 TO 114 127 TO 132 145 TO 150 166 TO 171 =
        AX 50.0   IX 30000.  IY 30000.  IZ 30000.  SY 3000.  SZ 6000.

CONSTANTS

 E 30000000.  ALL

 DENSITY 0.284  41 TO 64 79 TO 95 172 TO 180
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DENSITY 0,019  73 TO 78 109 TO 114 127 TO 132 145 TO 150 166 TO 171
DENSITY 0,473  201 TO 206 213 TO 215
DENSITY 0,486  207 TO 212 216 TO 218
DENSITY 0,672  181 TO 191
DENSITY 1,087  192 TO 200
DENSITY 0,401  65 66 96 116 133 151 152
DENSITY 0,405  99 T  101
DENSITY 0,362  67 TO 70
DENSITY 0,344  71 72 102 TO 105
DENSITY 0,451  108
DENSITY 0,367  106 107
DENSITY 0,462  118 119 136 137 157 158
DENSITY 0,469  126 144 165
DENSITY 0,373  120 TO 123 138 TO 141 159 TO 162
DENSITY 0,376  124 125 142 143 163 164
DENSITY 0,335  97 98 115 117 134 135
DENSITY 0,339  153 TO 156
LOADING 'DEAD' 'VIBRATING IN Y-DIRECTION'
DEAD LOAD Y 1,0
LOADING LIST ALL
STIFFNESS ANALYSIS REDUCED
```

BANDWIDTH USING INITIAL JOINT NUMBERING

JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND
1	1110	0	2	1010	1	3	1007	1	4	910	2	5	1001	2
6	907	2	7	810	3	8	1002	3	9	1004	4	10	901	5
11	807	4	12	710	5	13	1003	5	14	1005	6	15	903	7
16	1006	7	17	906	8	18	902	8	19	904	9	20	806	10
21	801	11	22	707	10	23	510	11	24	1008	11	25	908	10
26	905	11	27	803	12	28	1009	12	29	909	12	30	809	10
31	805	11	32	804	12	33	706	13	34	701	14	35	802	14
36	703	15	37	507	14	38	401	15	39	1011	15	40	911	15
41	608	14	42	1012	14	43	912	14	44	812	14	45	709	12
46	656	13	47	705	14	48	704	15	49	503	16	50	702	16
51	651	17	52	506	18	53	708	17	54	653	18	55	501	19
56	301	18	57	1111	18	58	811	18	59	1112	17	60	712	16
61	515	15	62	508	13	63	514	14	64	403	15	65	603	16
66	502	17	67	505	18	68	513	17	69	661	18	70	601	19
71	509	19	72	406	20	73	504	21	74	711	21	75	663	21
76	206	20	77	201	21	78	303	22	79	306	23	80	512	20
81	511	19	82	613	17	83	662	14	84	611	15	85	205	9
86	204	10	87	202	10	88	203	10	89	612	7	90	101	13
91	102	1	92	103	4	93	104	3	94	105	3	95	106	19

THE MAXIMUM BANDWIDTH IS 23 AND OCCURES AT JOINT 306
THE AVERAGE BANDWIDTH IS 12.442
THE STANDARD DEVIATION OF THE BANDWIDTH IS 5.843

NEW JOINT ORDER LIST TO PRODUCE IMPROVED BANDING

1110	1010	1007	910	1001	907	810	1002	1004	901	807	710
1003	1005	903	1006	906	902	904	806	801	707	510	1008
908	905	803	1009	909	809	805	804	706	701	802	703
507	401	1011	911	808	1012	912	812	709	656	705	704
503	702	651	506	708	653	501	301	1111	811	1112	712
515	508	514	403	603	502	505	513	661	601	509	406
504	711	663	206	303	306	201	512	511	613	662	611
106	205	204	203	101	202	612	105	104	103	102	

BANDWIDTH AFTER INTERNALLY RENUMBERING STRUCTURE

JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND
1	1110	0	2	1010	1	3	1007	1	4	910	2	5	1001	2
6	907	2	7	810	3	8	1002	3	9	1004	4	10	901	5
11	807	4	12	710	5	13	1003	5	14	1005	6	15	903	7
16	10.6	7	17	906	8	18	902	8	19	904	9	20	806	10
21	801	11	22	707	10	23	510	11	24	1008	11	25	908	10
26	905	11	27	803	12	28	1009	12	29	909	12	30	809	10
31	805	11	32	804	12	33	706	13	34	701	14	35	802	14
36	705	15	37	507	14	38	401	15	39	1011	15	40	911	15
41	808	14	42	1012	14	43	912	14	44	812	14	45	709	12
46	656	13	47	705	14	48	704	15	49	503	16	50	702	16
51	651	17	52	506	18	53	708	17	54	653	18	55	501	19
56	301	18	57	1111	18	58	811	18	59	1112	17	60	712	16
61	515	15	62	508	13	63	514	14	64	403	15	65	603	16
66	502	17	67	505	18	68	513	17	69	661	18	70	601	19
71	509	19	72	406	20	73	504	21	74	711	21	75	663	21
76	206	20	77	201	23	78	303	21	79	306	22	80	512	20
81	511	19	82	613	17	83	662	14	84	611	15	85	205	10
86	204	11	87	202	11	88	203	11	89	612	9	90	101	10
91	102	6	92	103	6	93	104	8	94	105	7	95	106	9

THE MAXIMUM BANDWIDTH IS 23 AND OCCURES AT JOINT 201
THE AVERAGE BANDWIDTH IS 12,537
THE STANDARD DEVIATION OF THE BANDWIDTH IS 5,554

TIME FOR CONSISTENCY CHECKS 0.76 SECONDS.
TIME TO GENERATE 178 ELEMENT STIF. MATRICES 1.29 SECONDS.
TIME TO PROCESS MEMBER RELEASES 0.06 SECONDS
TIME TO ASSEMBLE THE STIFFNESS MATRIX 3.28 SECONDS
DEAD LOAD APPLIED TO JOINT 1110 5549.719 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 1010 25938.352 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 1007 28.938 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 910 42208.660 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 1001 19549.332 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 907 28.938 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 810 40924.648 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 1002 12644.625 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 1004 10732.500 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 901 43404.410 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 807 28.938 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 710 35021.695 POUNDS ✓

DEAD LOAD APPLIED TO JOINT 1003	19549,352	POUNDS
DEAD LOAD APPLIED TO JOINT 1005	10752,500	POUNDS
DEAD LOAD APPLIED TO JOINT 903	44846,145	POUNDS
DEAD LOAD APPLIED TO JOINT 1006	19079,418	POUNDS
DEAD LOAD APPLIED TO JOINT 906	42372,965	POUNDS
DEAD LOAD APPLIED TO JOINT 902	6164,211	POUNDS
DEAD LOAD APPLIED TO JOINT 904	5604,801	POUNDS
DEAD LOAD APPLIED TO JOINT 806	39565,238	POUNDS
DEAD LOAD APPLIED TO JOINT 801	42554,211	POUNDS
DEAD LOAD APPLIED TO JOINT 707	28,938	POUNDS
DEAD LOAD APPLIED TO JOINT 510	18803,129	POUNDS
DEAD LOAD APPLIED TO JOINT 1008	28,938	POUNDS
DEAD LOAD APPLIED TO JOINT 908	28,938	POUNDS
DEAD LOAD APPLIED TO JOINT 905	5604,801	POUNDS
DEAD LOAD APPLIED TO JOINT 803	39898,813	POUNDS
DEAD LOAD APPLIED TO JOINT 1009	28,890	POUNDS
DEAD LOAD APPLIED TO JOINT 909	28,890	POUNDS
DEAD LOAD APPLIED TO JOINT 809	28,890	POUNDS
DEAD LOAD APPLIED TO JOINT 805	4659,695	POUNDS
DEAD LOAD APPLIED TO JOINT 804	4659,695	POUNDS
DEAD LOAD APPLIED TO JOINT 706	22006,328	POUNDS
DEAD LOAD APPLIED TO JOINT 701	29808,012	POUNDS
DEAD LOAD APPLIED TO JOINT 802	5124,078	POUNDS
DEAD LOAD APPLIED TO JOINT 703	28206,961	POUNDS
DEAD LOAD APPLIED TO JOINT 507	28,938	POUNDS
DEAD LOAD APPLIED TO JOINT 401	9896,918	POUNDS
DEAD LOAD APPLIED TO JOINT 1011	25958,352	POUNDS
DEAD LOAD APPLIED TO JOINT 911	42208,660	POUNDS
DEAD LOAD APPLIED TO JOINT 808	28,938	POUNDS
DEAD LOAD APPLIED TO JOINT 1012	25938,480	POUNDS
DEAD LOAD APPLIED TO JOINT 912	42208,527	POUNDS
DEAD LOAD APPLIED TO JOINT 812	40924,652	POUNDS
DEAD LOAD APPLIED TO JOINT 709	28,890	POUNDS
DEAD LOAD APPLIED TO JOINT 656	15290,152	POUNDS
DEAD LOAD APPLIED TO JOINT 705	2832,114	POUNDS
DEAD LOAD APPLIED TO JOINT 704	2832,114	POUNDS
DEAD LOAD APPLIED TO JOINT 503	11238,180	POUNDS
DEAD LOAD APPLIED TO JOINT 702	2958,397	POUNDS
DEAD LOAD APPLIED TO JOINT 651	12046,922	POUNDS
DEAD LOAD APPLIED TO JOINT 506	17942,203	POUNDS
DEAD LOAD APPLIED TO JOINT 708	28,938	POUNDS
DEAD LOAD APPLIED TO JOINT 653	12046,922	POUNDS
DEAD LOAD APPLIED TO JOINT 501	12202,984	POUNDS
DEAD LOAD APPLIED TO JOINT 301	9725,125	POUNDS
DEAD LOAD APPLIED TO JOINT 1111	5549,719	POUNDS
DEAD LOAD APPLIED TO JOINT 811	40924,648	POUNDS
DEAD LOAD APPLIED TO JOINT 1112	5549,461	POUNDS
DEAD LOAD APPLIED TO JOINT 712	35022,590	POUNDS
DEAD LOAD APPLIED TO JOINT 515	941,528	POUNDS
DEAD LOAD APPLIED TO JOINT 508	28,938	POUNDS

```
DEAD LOAD APPLIED TO JOINT 514          941,299 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 403         10014,379 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 603         10669,531 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 502          3155,468 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 505          2912,415 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 513           941,299 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 661          1152,264 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 601         10669,531 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 509            28,890 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 406          9896,340 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 504          2912,415 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 711         35021,695 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 663          1152,264 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 206          6454,367 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 303          9725,922 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 306          9724,988 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 201          6454,211 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 512         18803,172 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 511         18864,285 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 613          1159,413 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 662          1308,612 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 611          1159,413 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 106          3055,301 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 205          1075,113 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 204          1075,113 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 203          6454,094 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 101          3055,027 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 202          1075,139 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 612          1233,381 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 105          1075,113 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 104          1075,113 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 103          3055,027 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 102          1075,139 POUNDS ✓
TIME TO PROCESS   95 JOINTS                1.95 SECONDS.
                                                          ==========================================
                                                          GROSS WEIGHT OF STRUCTURE    1186254,000 POUNDS
                                                          ==========================================
TIME TO SOLVE WITH   32 PARTITIONS        11.95 SECONDS
TIME TO PROCESS    95 JOINT DISPLACEMENTS  0.15 SECONDS.
TIME TO PROCESS  178 MEMBER  DISTORTIONS   2.00 SECONDS.
TIME FOR STATICS CHECK                     0.83 SECONDS.

LIST DISPLACEMENTS ALL
```

****
RESULTS OF LATEST ANALYSES
****

PROBLEM = ACMR TITLE = DYNAMIC ANALYSIS OF TRIPOD STRUCTURE AT 105 FT WATER --U.S.NAVY

ACTIVE UNITS INCH LB RAD FAHR SEC LBM

LOADING = DEAD VIBRATING IN Y-DIRECTION

RESULTANT JOINT DISPLACEMENTS = SUPPORTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1110	GLOBAL	0.0	0.0	0.0	-0.0122533	-0.0050375	-0.0024998
1111	GLOBAL	0.0	0.0	0.0	-0.0124526	0.0046090	-0.0000919
1112	GLOBAL	0.0	0.0	0.0	-0.0206777	0.0005758	-0.0015376

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1010	GLOBAL	-0.6387483	1.9974012	-0.2208859	-0.0077158	-0.0010865	-0.0021724
1007	GLOBAL	0.1386565	3.5152473	0.2413847	-0.0052782	0.0013268	-0.0003595
910	GLOBAL	-0.0208961	4.1337967	-0.2598452	-0.0030543	0.0016681	-0.0017293
1001	GLOBAL	0.1520595	3.5017529	0.1957388	-0.0042569	0.0007392	-0.0001647
907	GLOBAL	0.0316088	4.3484221	0.1272035	-0.0028411	0.0006559	-0.0000551
810	GLOBAL	0.2954944	5.0471287	-0.2463524	-0.0008353	-0.0000216	-0.0012711
1002	GLOBAL	0.0674202	3.4194984	0.1496980	-0.0019332	-0.0000091	0.0005226
1004	GLOBAL	-0.0751981	3.4951115	-0.1548115	-0.0007351	0.0008640	0.0006736
901	GLOBAL	0.0319715	4.3342686	0.1021340	-0.0020224	0.0001819	0.0001011
807	GLOBAL	0.0744768	4.7419701	-0.0137452	-0.0007652	0.0001310	-0.0002193
710	GLOBAL	0.2225359	5.0251284	-0.2167550	0.0010409	-0.0004875	-0.0009633
1003	GLOBAL	0.0023794	3.1584787	0.1679726	-0.0039626	-0.0008983	0.0007663

RESULTANT JOINT DISPLACEMENTS • FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1005	GLOBAL	-0,0854754	5,3250246	-0,0476737	-0,0005596	-0,0006302	0,0003336
903	GLOBAL	0,0477834	5,9254675	0,0875248	-0,0019588	-0,0002058	0,0003904
1006	GLOBAL	-0,2255917	5,2175875	-0,4062231	-0,0027059	0,0003276	0,0001317
906	GLOBAL	-0,1106888	4,1547604	-0,2302210	-0,0017109	0,0001803	-0,0000518
902	GLOBAL	0,0400782	4,1524544	0,1431395	-0,0012879	-0,0000238	0,0007115
904	GLOBAL	-0,0832773	4,2214336	-0,0945630	-0,0003861	0,0005945	0,0004447
806	GLOBAL	0,0243755	4,6676769	0,0238876	-0,0016499	0,0013166	-0,0003201
801	GLOBAL	0,0769615	4,7440023	-0,0218415	-0,0006296	0,0000529	-0,0001934
707	GLOBAL	0,0527537	4,7653913	-0,1106421	0,0007608	-0,0003135	-0,0007731
510	GLOBAL	0,0628217	4,6523237	-0,1701238	0,0011847	-0,0004812	-0,0009457
1008	GLOBAL	0,0039647	3,1548262	0,2050717	-0,0050081	-0,0014998	0,0009657
908	GLOBAL	0,0551961	5,9263906	0,1110601	-0,0028477	-0,0007181	0,0005600
905	GLOBAL	-0,0879646	4,0751257	-0,0813111	-0,0002860	-0,0005241	0,0004624
805	GLOBAL	0,0361914	4,5415382	-0,0281973	-0,0023685	0,0000761	0,0000145
1009	GLOBAL	-0,2279513	5,2182865	-0,4894937	-0,0027071	0,0003197	0,0001304
909	GLOBAL	-0,1062491	4,1695525	-0,2805226	-0,0017103	0,0002773	-0,0000358
809	GLOBAL	0,0404620	4,6768646	-0,0254324	-0,0016498	0,0010761	-0,0003599
805	GLOBAL	0,0036065	4,6216917	-0,0066328	0,0008521	-0,0006975	0,0002415
804	GLOBAL	0,0071862	4,6823883	0,0021649	0,0001680	0,0006095	0,0003005
706	GLOBAL	0,0638852	5,1501598	0,3028525	-0,0000821	0,0009514	-0,0012112
701	GLOBAL	0,0661355	4,7891226	-0,1073446	0,0005100	-0,0001690	-0,0008209
802	GLOBAL	0,0568247	4,6550245	-0,0063069	-0,0005828	-0,0000797	0,0004933
703	GLOBAL	0,0297760	5,4179878	-0,1880243	-0,0006471	-0,0000068	-0,0010593
507	GLOBAL	0,0372147	4,6115844	-0,1579275	0,0010049	-0,0003944	-0,0009918
401	GLOBAL	0,0426207	4,6024637	-0,1618699	0,0009345	-0,0003801	-0,0009882
1011	GLOBAL	0,5995982	1,9673424	-0,2127116	-0,0079407	0,0006424	-0,0004143
911	GLOBAL	-0,1044139	4,0921850	-0,2382672	-0,0035611	-0,0020574	-0,0008212
808	GLOBAL	0,0377777	4,5533686	0,0091209	-0,0022345	0,0001552	-0,0000110
1012	GLOBAL	0,0584141	3,0504217	0,4324765	-0,0093125	0,0005915	-0,0015350
912	GLOBAL	0,1922086	4,0448761	0,4982365	-0,0001628	0,0006279	-0,0015290
812	GLOBAL	0,4096902	4,5894814	0,5012830	-0,0020392	0,0010143	-0,0014641
709	GLOBAL	0,7049041	5,1490746	0,3001217	-0,0000823	0,0008336	-0,0012307
656	GLOBAL	0,7046865	5,1265697	0,3288375	0,0005070	0,0004822	-0,0013642
705	GLOBAL	0,5573072	5,2906542	0,0543388	0,0017129	-0,0005444	-0,0015868
704	GLOBAL	0,3388538	4,9555235	0,0867166	0,0012435	0,0001903	-0,0016605
503	GLOBAL	0,0160948	5,2643185	-0,2146274	0,0008023	-0,0000959	-0,0015532
702	GLOBAL	0,0479082	5,1242819	-0,1461415	0,0008160	-0,0002482	-0,0015563
651	GLOBAL	0,0634526	4,7562532	-0,1213490	0,0005208	-0,0001011	-0,0009190
506	GLOBAL	0,6956156	4,9365244	0,3705222	0,0008485	0,0001350	-0,0016133
708	GLOBAL	0,0126089	5,4480524	-0,1782587	-0,0002855	0,0002016	-0,0011284
653	GLOBAL	0,0297247	5,4278030	-0,2009194	0,0000382	-0,0001346	-0,0012139
501	GLOBAL	0,0542797	4,6420164	-0,1550787	0,0008304	-0,0002939	-0,0010251
301	GLOBAL	-0,0081351	4,5509324	-0,1579586	0,0007692	-0,0000552	-0,0014481
811	GLOBAL	-0,4004220	5,2305861	-0,2465019	-0,0023691	0,0003102	-0,0011872

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
712	GLOBAL	0.6232073	5.1119967	0.5117130	-0.0003907	0.0007589	-0.0015074
515	GLOBAL	0.7550886	4.9370375	0.3486552	-0.0005461	0.0001067	-0.0015682
508	GLOBAL	-0.0063235	5.3015928	-0.2293633	0.0008937	-0.0000414	-0.0015706
514	GLOBAL	-0.0116610	5.3127289	-0.2095221	0.0004510	0.0003961	-0.0015239
405	GLOBAL	0.0160714	5.1988459	-0.2199864	0.0008205	-0.0000904	-0.0016107
603	GLOBAL	0.0183379	5.3365936	-0.2111448	0.0007157	-0.0001695	-0.0014505
502	GLOBAL	0.0353102	4.9408960	-0.1853699	0.0014187	-0.0001550	-0.0018798
505	GLOBAL	0.3354410	5.1131392	0.0772737	0.0020779	-0.0004207	-0.0021617
513	GLOBAL	0.0364004	4.6116352	-0.1316612	0.0003676	-0.0008765	-0.0009561
661	GLOBAL	-0.0213295	4.7563686	-0.1699805	0.0009360	-0.0001607	-0.0017800
601	GLOBAL	0.0624537	4.6879425	-0.1423787	0.0007029	-0.0001661	-0.0010081
509	GLOBAL	0.7446782	4.9338980	0.3960356	0.0008487	0.0001827	-0.0016054
406	GLOBAL	0.6891022	4.8888826	0.3832402	0.0008023	0.0001623	-0.0016081
504	GLOBAL	0.3362765	4.7673054	0.0945392	0.0019478	0.0002038	-0.0021104
711	GLOBAL	-0.0921004	5.5918016	-0.2826720	-0.0001057	0.0006121	-0.0015375
663	GLOBAL	-0.0238934	5.4279032	-0.2526379	0.0007588	-0.0001640	-0.0006715
206	GLOBAL	0.5934571	4.6179495	0.3731173	0.0016617	-0.0001969	-0.0018906
201	GLOBAL	-0.0268976	4.2872190	-0.1579356	0.0016240	-0.0001453	-0.0015230
303	GLOBAL	0.0018562	5.2118034	-0.2161618	0.0006850	-0.0001644	-0.0018974
306	GLOBAL	0.6281087	4.8790016	0.3752511	0.0007974	-0.0002492	-0.0018523
512	GLOBAL	0.6929039	4.9340382	0.4046752	0.0009488	0.0002304	-0.0015966
511	GLOBAL	0.0122825	5.2714605	-0.2524141	0.0010358	-0.0000953	-0.0016429
613	GLOBAL	-0.0504772	5.3367853	-0.2295989	0.0001669	-0.0001785	-0.0006606
662	GLOBAL	-0.0226523	5.3077240	-0.2018544	0.0008143	-0.0001794	-0.0017851
611	GLOBAL	-0.0489378	4.6881485	-0.1744635	0.0004295	-0.0001859	-0.0019284
205	GLOBAL	0.2709584	4.7969122	0.0776550	0.0019129	-0.0002309	-0.0020992
204	GLOBAL	0.2719104	4.4464960	0.1072535	0.0019301	-0.0001049	-0.0021177
202	GLOBAL	-0.0318674	4.6225300	-0.1841851	0.0018124	-0.0001580	-0.0020376
203	GLOBAL	-0.0368310	4.9666948	-0.2141420	0.0016158	-0.0001922	-0.0019131
612	GLOBAL	-0.0496887	5.1950226	-0.2018555	0.0007251	-0.0001698	-0.0018559
101	GLOBAL	-0.0571520	4.0009642	-0.1578891	0.0015899	-0.0001710	-0.0015411
102	GLOBAL	-0.0579209	4.3499708	-0.1893257	0.0018584	-0.0001753	-0.0020888
103	GLOBAL	-0.0566635	4.6977777	-0.2140855	0.0014528	-0.0000995	-0.0019156
104	GLOBAL	0.2446777	4.1745853	0.1149172	0.0020251	-0.0001409	-0.0020965
105	GLOBAL	0.2437437	4.5257379	0.0754868	0.0019660	-0.0002994	-0.0020327
106	GLOBAL	0.5478595	4.3480368	0.3730143	0.0014558	-0.0002804	-0.0018946

ASP JOB NO. = 9595 DATE = 76,188

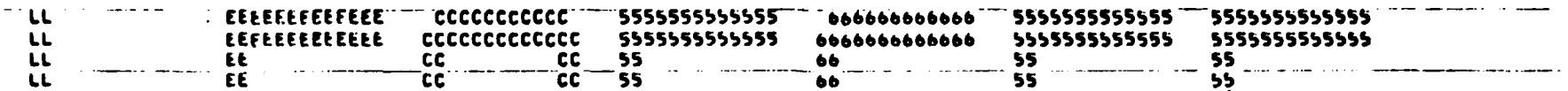
```
//LEC5655 JOB (00442705002777101PCETENG96),'CHERN      ',PRTY=4,CLASS=D,C9595

        ELAPSED TIME ON MAIN = A        = 008,05, START TIME = 18,00,54

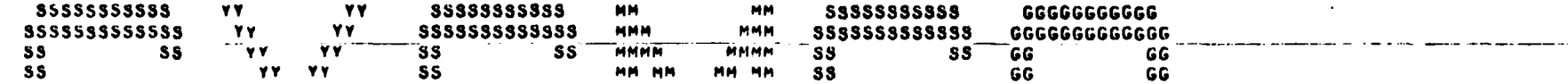
        DDNAME = SYSMSG                 PRINTED ON RM027PR1, LINES = 000123
        DDNAME = FT06F001               PRINTED ON RM027PR1, LINES = 000800
        LINES OUTPUT FOR THIS JOB = 000923

      CARDS FROM MAIN FOR THIS JOB = NONE
```

CHERN 00442705 4866 LEC5655 SYSMSG



A-3 Z-DIRECTION



CHERN 00442705 4866 LEC5655 SYSMSG

```
 IS360 JOB ORIGIN FROM GROUP=RM027    , DSP=CR , DEVICE=RM027RD1, 0A3
//LEC5655 JOB (0044270500277710IPCETENG96),'CHERN      ',PRTY=4,CLASS=D,C
// TIME=(060,00),REGION=500K
//*MAIN  LINES=(080,*),CARDS=(00,C),SYSTEM=A,FAILURE=RESTART
//*IN15656 EXEC *IN15656
//*IN15656.SYSIN DD *
/*



AMDS01 JOB 4866 (LEC5655 ) IN SETUP ON MAIN=A
AMDS02 STEPLIB  USING 0 ONL001 ON 100
 LEC5655  IEF403I LEC5655  STARTED    TIME=17.04.57
 LEC5655  IEF234E D 686,ASP6H6
*LEC5655 *68 IECASP0 685 IS LEC5655  A *IN15656*IN15656FT06F001
*LEC5655 *76 IECASP0 682 IS LEC5655    *IN15656*IN15656ASPI0001
 LEC5655  IEC202E * 6H2,014866,NL,LEC5655,*IN15656
 LEC5655  TI=LEC5655 CC=00442705 P=2777101 P J=CETENG96 N=CHERN      A=4866
 LEC5655  IEF404I LEC5655  ENDED       TIME=17.15.28
//LEC5655 JOB (0044270500277710IPCETENG96),'CHERN      ',PRTY=4,CLASS=D,*
// TIME=(060,00),REGION=500K
//*IN15656 EXEC *IN15656
XX*IN15656 EXEC PGM=GGDICEX5,PARM=00000                                  00020000
XXSTEPLIB DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,DSN=MAC.ICESV2P3         00040000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00060000
XX DSN=ICES.STRUDL.FIX                                                   00080000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00100000
XX DSNAME=MAC.SUBROANG                                                   00120000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00140000
XX DSNAME=MAC.STR2PS                                                     00160000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00180000
XX DSNAME=MAC.TABLE2PS                                                   00200000
XXFT05F001 DD DDNAME=SYSIN                                               00220000
XXFT06F001 DD SYSOUT=A,DCB=(RECFM=FB,LRECL=133,BLKSIZE=798)              00240000
XXFT06F002 DD SYSOUT=A                                                   00260000
XXFT07F001 DD SYSOUT=B                                                   00280000
XXFT10F001 DD DUMMY                                                      00300000
XXDD1 DD UNIT=SYSDA,DCB=DSORG=DA,SPACE=(TRK,10)                          00320000
XXDD2 DD DSN=MAC.STR2PS,DD2,DISP=SHR,DCB=DSORG=DA,UNIT=SYSDA,            00340000
XX VOL=SER=ONL001                                                        00360000
XXDD3 DD DSN=DD3,SUBROANG,DISP=SHR,DCB=DSORG=DA,UNIT=SYSDA,              00380000
XX VOL=SER=ONL001                                                        00400000
XXDD4 DD UNIT=SYSDA,DCB=(DSORG=DA,BLKSIZE=6300),SPACE=(6300,(500,50))    00420000
//*IN15656.SYSIN DD UNIT=(CTC,,DEFER),DSNAME=&&ASPI0001,                 *
// DISP=(OLD,DELETE),VOL=SER=014866,DCB=(LRECL=80,BLKSIZE=80,RECFM=F)
//
IEF236I ALLOC. FOR LEC5655  *IN15656 *IN15656
IEF237I 100    ALLOCATED TO STEPLIB
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 682    ALLOCATED TO FT05F001
IEF237I 685    ALLOCATED TO FT06F001
IEF237I 686    ALLOCATED TO FT06F002
IEF237I 687    ALLOCATED TO FT07F001
IEF237I 102    ALLOCATED TO DD1
IEF237I 100    ALLOCATED TO DD2
IEF237I 100    ALLOCATED TO DD3
IEF237I 100    ALLOCATED TO
```

```
IEF142I - STEP WAS EXECUTED - COND CODE 0000
IEF285I   MAC,ICFSV2P3                                   KEPT
IEF285I   VOL SER NOS= ONL001.
IEF285I   ICFS,STRUDL,FIX                                KEPT
IEF285I   VOL SER NOS= ONL001.
IEF285I   MAC,SDOUBANG                                   KEPT
IEF285I   VOL SER NOS= ONL001.
IEF285I   MAC,STR2P5                                     KEPT
IEF285I   VOL SER NOS= ONL001.
IEF285I   MAC,TABLE2P5                                   KEPT
IEF285I   VOL SER NOS= ONL001.
IEF285I   SYS76189,T170449,RV001,LEC5655,ASPI0001        DELETED
IEF285I   VOL SER NOS= 014866.
IEF285I   SYS76189,T170449,RV001,LEC5655,ASPUA001        DELETED
IEF285I   VOL SER NOS= ASP655.
IEF285I   SYS76189,T170449,RV001,LEC5655,H0005301        DELETED
IEF285I   VOL SER NOS= SCR004.
IEF285I   MAC,STR2P5,DD2                                 KEPT
IEF285I   VOL SER NOS= ONL001.
IEF285I   DD3,SDOUBANG                                   KEPT
IEF285I   VOL SER NOS= ONL001.
IEF285I   SYS76189,T170449,RV001,LEC5655,H0005302        DELETED
IEF285I   VOL SER NOS= SCR002.
IEF373I STEP /*IN15656/ START 76189,1704
IEF374I STEP /*IN15656/ STOP  76189,1715 CPU   0MIN 27.56SEC STOR VIRT 512K
$$$
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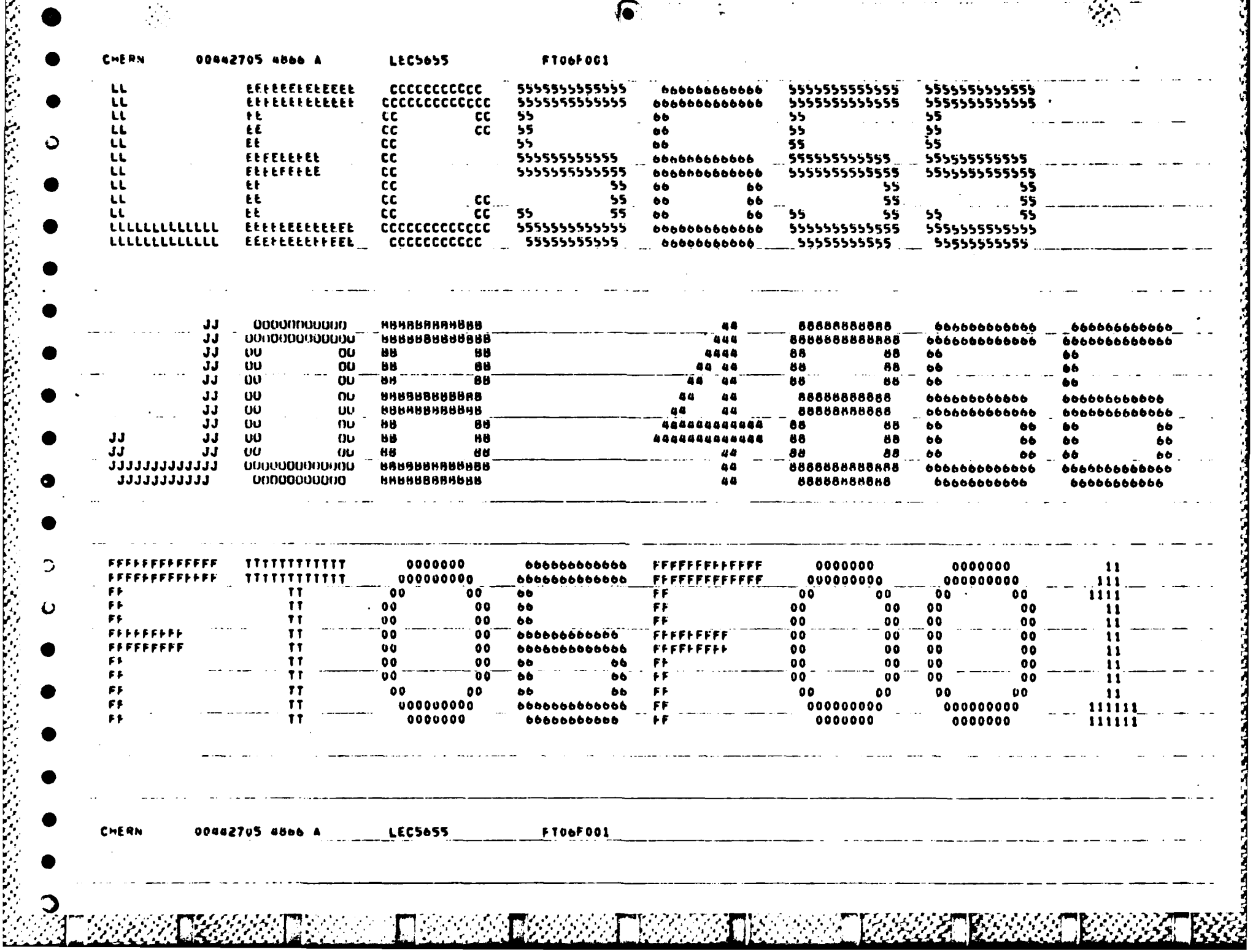
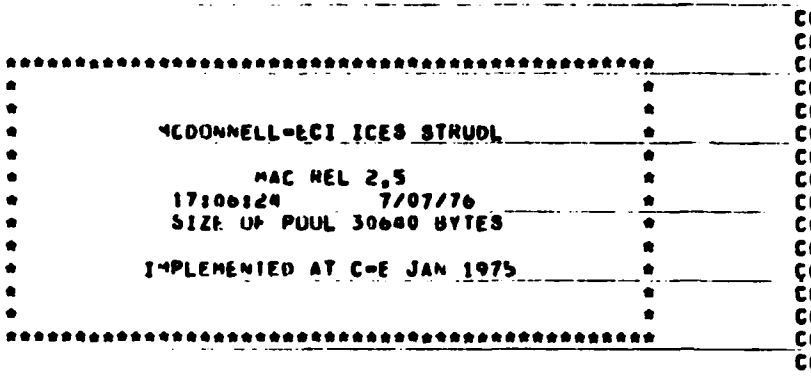

CHERN 00442705 4866 A LEC5655 FT06F001
CHERN 00442705 4866 A LEC5655 FT06F001

STRUDL 'ACMN' 'DYNAMIC ANALYSIS OF TRIPOD STRUCTURE AT 105 FT WATER --U.S.NAVY'



DUMP TIME

TYPE SPACE FRAME

UNIT FEET

JOINT COORDINATES

1110	34.21	-19.75	-15.00	8
1010	32.08	-18.50	-0.01	
1007	34.21	-19.75	0.41	
910	27.42	-15.83	31.99	
1001	32.08	-18.50	0.0	
907	29.59	-17.08	32.41	
810	22.79	-13.16	63.99	
1002	0.	-18.50	0.0	
1004	16.02	9.25	0.0	
901	27.42	-15.83	32.00	

807	24,96	-14,41	64,41
710	18,76	-10,83	91,99
1003	-52,04	-18,50	0,0
1005	-16,02	9,25	0,0
903	-27,42	-15,83	32,00
1006	0,	37,00	0,0
906	0,	31,66	32,00
902	0,	-15,83	32,00
904	13,71	7,91	32,00
806	0,	26,32	64,00
801	22,79	-13,16	64,00
707	20,93	-12,08	92,41
510	15,15	-8,75	116,99
1008	-34,21	-19,75	0,41
908	-29,59	-17,08	32,41
905	-13,71	7,91	32,00
803	-22,79	-13,16	64,00
1009	0,	39,50	0,41
909	0,	34,16	32,41
809	0,	28,82	64,41
805	-11,40	6,58	64,00
804	11,40	6,58	64,00
706	0,	21,66	92,0
701	18,76	-10,83	92,0
802	0,	-13,16	64,00

703	-18,76	-10,83	92,0	
507	17,32	-10,00	117,41	
401	14,50	-8,37	121,5	
1011	-32,08	-18,50	-0,01	
911	-27,42	-15,83	31,99	
808	-24,96	-14,41	64,41	
1012	0,	37,00	-0,01	
912	0,	31,66	31,99	
812	0,	26,32	63,99	
709	0,	24,16	92,41	
656	0,	20,49	99,00	
705	-9,38	5,41	92,0	
704	9,38	5,41	92,0	
503	-15,15	-8,75	117,0	
702	0,	-10,83	92,0	
651	17,74	-10,25	99,00	
506	0,	17,49	117,0	
708	-20,93	-12,08	92,41	
653	-17,74	-10,25	99,00	
501	15,15	-8,75	117,0	
301	14,50	-8,37	150,0	
1111	-34,21	-19,75	-15,00	S
811	-22,79	-13,16	63,99	
1112	0,	39,50	-15,00	S
712	0,	21,66	91,99	

515	0,	20,49	117,00
508	-17,32	-10,00	117,41
514	-17,74	-10,25	117,00
403	-14,	-8,37	121,5
603	-16,01	-9,25	111,00
502	0,	-8,75	117,0
505	-7,575	4,37	117,0
513	17,74	-10,25	117,00
601	17,74	-15,25	99,00
601	16,01	-9,25	111,00
509	0,	19,99	117,41
406	0,	16,74	121,5
504	7,575	4,37	117,0
711	-18,76	-10,83	91,99
603	-17,74	-15,25	99,00
206	0,	16,74	165,0
303	-14,50	-8,37	150,0
306	0,	16,74	150,0
201	14,50	-8,37	165,0
512	0,	17,49	116,99
511	-15,15	-8,75	116,99
613	-16,01	-15,25	111,00
602	0,	-15,25	99,00
611	16,01	-15,25	111,00
106	0,	16,74	180,0

205	-7,25	4,18	165,0
204	7,25	4,18	165,0
203	-14,50	-8,37	165,0
101	14,50	-8,37	180,0
202	0,	-8,37	165,0
612	0,	-15,25	111,00
105	-7,25	4,18	180,0
104	7,25	4,18	180,0
103	-14,50	-8,37	180,0
102	0,	-8,37	180,0

JOINT RELEASES

1110 1111 1112 MOM X MOM Y MOM Z

MEMBER INCIDENCES

41	101	102
42	102	103
43	103	105
44	105	106
45	101	104
46	104	106
47	102	104
48	102	105
49	104	105
50	201	202
51	202	203
52	203	205

53	205	206
54	201	204
55	204	206
56	202	204
57	202	205
58	204	205
59	201	303
60	203	306
61	206	301
62	301	303
63	303	306
64	301	306
65	501	502
66	502	503
67	503	505
68	505	506
69	501	504
70	504	506
71	502	504
72	502	505
73	501	507
74	507	510
75	503	508
76	508	511
77	506	509

78	509	512
79	501	513
80	503	514
81	506	515
82	513	651
83	514	653
84	515	656
85	601	611
86	603	613
87	651	661
88	653	663
89	611	612
90	612	613
91	661	662
92	662	663
93	611	661
94	612	662
95	613	663
96	501	703
97	503	706
98	506	701
99	701	702
100	504	505
101	702	703
102	703	705

103	705	706
104	701	704
105	704	706
106	702	704
107	702	705
108	704	705
109	701	707
110	707	710
111	703	708
112	708	711
113	706	709
114	709	712
115	701	806
116	703	801
117	701	803
118	801	802
119	802	803
120	803	805
121	805	806
122	801	804
123	804	806
124	802	804
125	802	805
126	804	805
127	801	807

128	807	810
129	803	808
130	808	811
131	806	809
132	809	812
133	801	903
134	803	906
135	806	901
136	901	902
137	902	903
138	903	905
139	905	906
140	901	904
141	904	906
142	902	904
143	902	905
144	904	905
145	901	907
146	907	910
147	903	908
148	908	911
149	906	909
150	909	912
151	901	1002
152	903	1002

153	903	1005
154	906	1005
155	901	1004
156	906	1004
157	1001	1002
158	1002	1003
159	1003	1005
160	1005	1006
161	1001	1008
162	1004	1006
163	1002	1008
164	1002	1005
165	1004	1005
166	1001	1007
167	1007	1010
168	1003	1008
169	1008	1011
170	1006	1009
171	1009	1012
172	101	201
173	103	203
174	106	206
175	201	301
176	203	303
177	206	306

178	501	401
179	503	403
180	506	406
181	401	501
182	403	503
183	406	506
[illegible]	[illegible]	601
185	503	603
186	506	656
187	601	651
188	603	653
189	651	701
190	653	703
191	656	706
192	701	801
193	703	803
194	706	806
195	801	901
196	803	903
197	806	906
198	901	1001
199	903	1003
200	906	1006
201	401	510
202	403	511

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   203      406      512
   204      510      710
   205      511      711
   206      512      712
   207      710      810
   208      711      811
   209      712      812
   210      810      910
   211      811      911
   212      812      912
   213      910      1010
   214      911      1011
   215      912      1012
   216      1010     1110
   217      1011     1111
   218      1012     1112
   MEMBER RELEASES
   74 76 78 110 112 114 128 130 132  END MOM Y Z  END FORCE Y Z
   146 148 150 167 169 171 END MOM Y Z  END FORCE Y Z
   UNIT INCH LBS
   MEMBER PROPERTIES PRISMATIC
   41 TO 46 50 TO 55  AX 14,70  IX 1,25  IY 802,  IZ 40,2  SY 89,1  SZ 10,7
   47 TO 49 56 TO 58  AX  7,06  IX ,343  IY 82,5  IZ 18,2  SY 20,8  SZ 5,61
   59 TO 64 71 72 79 TO 81 100 101 TO 105 99 -
            AX 19,24  IX 725,28  IY 561,64  IZ 561,64  SY 56,73  SZ 56,73
   106 TO 108 -
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        AX 14.58  IX 558.82  IY 279.41  IZ 279.41  SY 43.83  SZ 43.83

 124 TO 126 142 TO 144 163 TO 165 =
        AX 16.05  IX 745.72  IY 372.86  IZ 372.86  SY 53.26  SZ 53.26

 89 TO 92 =
        AX 12.76  IX 211.48  IY 105.74  IZ 105.74  SY 24.52  SZ 24.52

 85 TO 88 93 TO 95 =
        AX 26.27  IX 649.2   IY 324.6   IZ 324.6   SY 60.39  SZ 60.39

 65 TO 70 151 TO 156 =
        AX 24.35  IX 1464.2  IY 732.1   IZ 732.1   SY 91.52  SZ 91.52

 118 TO 123 136 TO 141 157 TO 162 =
        AX 27.49  IX 2106.88 IY 1053.44 IZ 1053.44 SY 117.05 SZ 117.05

 96 TO 98 115 TO 117 133 TO 135 =
        AX 38.08  IX 3574.86 IY 1787.43 IZ 1787.43 SY 178.74 SZ 178.74

 172 TO 180 =
        AX 91.11  IX 19182.8 IY 9591.4  IZ 9591.4  SY 639.43 SZ 639.43

 201 TO 206 213 TO 215 =
        AX 221.29 IX 89816.8 IY 44908.4 IZ 44908.4 SY 2138.5 SZ 2138.5

 207 TO 212 =
        AX 251.33 IX 100808. IY 50404.  IZ 50404.  SY 2400.2 SZ 2400.2

 216 TO 218 =
        AX 156.46 IX 41260.8 IY 20630.4 IZ 20630.4 SY 1146.1 SZ 1146.1

 181 TO 191 =
        AX 141.37 IX 71604.9 IY 35802.4 IZ 35802.4 SY 1556.6 SZ 1556.6

 192 TO 200 =
        AX 71.47  IX 36995.4 IY 18497.7 IZ 18497.7 SY 804.25 SZ 804.25

 82 TO 84 =
        AX 27.49  IX 2106.88 IY 1053.44 IZ 1053.44 SY 117.05 SZ 117.05

 73 TO 78 109 TO 114 127 TO 132 145 TO 150 166 TO 171 =
        AX 50.0   IX 30000.  IY 30000.  IZ 30000.  SY 3000.  SZ 6000.

 CONSTANTS

  E 30000000.  ALL

 DENSITY  0.284  41 TO 64 79 TO 95 172 TO 180
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DENSITY   0.016  73 TO 78 109 TO 114 127 TO 132 145 TO 150 166 TO 171
DENSITY   0.247  181 TO 218
DENSITY  -0.024  65 TO 70 96 TO 98 115 TO 117 133 TO 135 151 TO 156
DENSITY   0.057  71 72 99 TO 105
DENSITY  -0.042  106 TO 108
DENSITY  -0.061  118 TO 123 136 TO 141 157 TO 162
DENSITY  -0.073  124 TO 126 142 TO 144 163 TO 165
LOADING 'DEAD' 'GRAVITY AND BUOYANCY'
DEAD LOAD Z -1.0
LOADING LIST ALL
STIFFNESS ANALYSIS REDUCED
```

BANDWIDTH USING INITIAL JOINT NUMBERING

JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND
1	1110	0	2	1010	1	3	1007	1	4	910	2	5	1001	2
6	907	2	7	810	3	8	1002	3	9	1004	4	10	901	5
11	807	4	12	710	5	13	1003	5	14	1005	6	15	903	7
16	1006	7	17	906	8	18	902	8	19	904	9	20	806	10
21	801	11	22	707	10	23	510	11	24	1008	11	25	908	10
26	905	11	27	803	12	28	1009	12	29	909	12	30	809	10
31	805	11	32	804	12	33	706	13	34	701	14	35	802	14
36	703	15	37	507	14	38	401	15	39	1011	15	40	911	15
41	808	14	42	1012	14	43	912	14	44	812	14	45	709	12
46	656	13	47	705	14	48	704	15	49	503	16	50	702	16
51	651	17	52	506	18	53	708	17	54	653	18	55	501	19
56	301	18	57	1111	18	58	811	18	59	1112	17	60	712	16
61	515	15	62	508	13	63	514	14	64	403	15	65	603	16
66	502	17	67	505	18	68	513	17	69	661	18	70	601	19
71	509	19	72	406	20	73	504	21	74	711	21	75	663	21
76	206	20	77	303	21	78	306	22	79	201	23	80	512	20
81	511	19	82	613	17	83	662	14	84	611	15	85	106	9
86	205	10	87	204	11	88	203	11	89	101	10	90	202	11
91	612	9	92	105	7	93	104	8	94	103	6	95	102	6

THE MAXIMUM BANDWIDTH IS 23 AND OCCURES AT JOINT 201
THE AVERAGE BANDWIDTH IS 12,537
THE STANDARD DEVIATION OF THE BANDWIDTH IS 5,554

NEW JOINT ORDER LIST TO PRODUCE IMPROVED BANDING

1110	1010	1007	910	1001	907	810	1002	1004	901	807	710
1003	1005	903	1006	906	902	904	806	801	707	510	1008
908	905	803	1009	909	809	805	804	706	701	802	703
507	401	1011	911	808	1012	912	812	709	656	705	704
503	702	651	506	708	655	501	301	1111	811	1112	712
515	508	514	403	603	502	505	513	661	601	509	406
504	711	663	206	303	306	201	512	511	613	662	611
106	205	204	203	101	202	612	105	104	103	102	

BANDWIDTH AFTER INTERNALLY RENUMBERING STRUCTURE

JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND	JOINT NO.	JOINT ID	BAND
1	1110	0	2	1010	1	3	1007	1	4	910	2	5	1001	2
6	907	2	7	810	3	8	1002	3	9	1004	4	10	901	5
11	807	4	12	710	5	13	1003	5	14	1005	6	15	903	7
16	1006	7	17	906	8	18	902	8	19	904	9	20	806	10
21	801	11	22	707	10	23	510	11	24	1008	11	25	908	10
26	905	11	27	805	12	28	1009	12	29	909	12	30	809	10
31	805	11	32	804	12	33	706	13	34	701	14	35	802	14
36	703	15	37	507	14	38	401	15	39	1011	15	40	911	15
41	808	14	42	1012	14	43	912	14	44	812	14	45	709	12
46	656	13	47	705	14	48	704	15	49	503	16	50	702	16
51	651	17	52	506	18	53	708	17	54	653	18	55	501	19
56	301	18	57	1111	18	58	811	18	59	1112	17	60	712	16
61	515	15	62	508	13	63	514	14	64	403	15	65	603	16
66	502	17	67	505	18	68	513	17	69	661	18	70	601	19
71	509	19	72	406	20	73	504	21	74	711	21	75	663	21
76	206	20	77	503	21	78	506	22	79	201	23	80	512	20
81	511	19	82	613	17	83	662	14	84	611	15	85	106	9
86	205	10	87	204	11	88	203	11	89	101	10	90	202	11
91	612	9	92	105	7	93	104	8	94	103	6	95	102	6

THE MAXIMUM BANDWIDTH IS 23 AND OCCURES AT JOINT 201
THE AVERAGE BANDWIDTH IS 12,537
THE STANDARD DEVIATION OF THE BANDWIDTH IS 5,554

TIME FOR CONSISTENCY CHECKS 0,77 SECONDS,
TIME TO GENERATE 178 ELEMENT STIF, MATRICES 1,29 SECONDS,
TIME TO PROCESS MEMBER RELEASES 0,06 SECONDS
TIME TO ASSEMBLE THE STIFFNESS MATRIX 3,29 SECONDS
DEAD LOAD APPLIED TO JOINT 1110 3073,498 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 1010 13725,039 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 1007 24,369 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 910 22735,727 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 1001 2805,619 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 907 24,369 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 810 22668,715 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 1002 -1391,555 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 1004 -1391,377 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 901 5710,398 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 807 24,369 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 710 18896,406 POUNDS ✓

DEAD LOAD APPLIED TO JOINT 1003	2803.619	POUNDS
DEAD LOAD APPLIED TO JOINT 1005	-1391.377	POUNDS
DEAD LOAD APPLIED TO JOINT 903	5710.410	POUNDS
DEAD LOAD APPLIED TO JOINT 1006	2803.645	POUNDS
DEAD LOAD APPLIED TO JOINT 906	5710.270	POUNDS
DEAD LOAD APPLIED TO JOINT 902	-937.205	POUNDS
DEAD LOAD APPLIED TO JOINT 904	-937.219	POUNDS
DEAD LOAD APPLIED TO JOINT 806	5394.973	POUNDS
DEAD LOAD APPLIED TO JOINT 801	5395.117	POUNDS
DEAD LOAD APPLIED TO JOINT 707	24.369	POUNDS
DEAD LOAD APPLIED TO JOINT 510	9823.598	POUNDS
DEAD LOAD APPLIED TO JOINT 1008	24.369	POUNDS
DEAD LOAD APPLIED TO JOINT 908	24.369	POUNDS
DEAD LOAD APPLIED TO JOINT 905	-937.219	POUNDS
DEAD LOAD APPLIED TO JOINT 803	5395.115	POUNDS
DEAD LOAD APPLIED TO JOINT 1009	24.328	POUNDS
DEAD LOAD APPLIED TO JOINT 909	24.328	POUNDS
DEAD LOAD APPLIED TO JOINT 809	24.328	POUNDS
DEAD LOAD APPLIED TO JOINT 805	-779.183	POUNDS
DEAD LOAD APPLIED TO JOINT 804	-779.183	POUNDS
DEAD LOAD APPLIED TO JOINT 706	4434.809	POUNDS
DEAD LOAD APPLIED TO JOINT 701	3885.314	POUNDS
DEAD LOAD APPLIED TO JOINT 802	-779.093	POUNDS
DEAD LOAD APPLIED TO JOINT 703	4160.063	POUNDS
DEAD LOAD APPLIED TO JOINT 507	24.369	POUNDS
DEAD LOAD APPLIED TO JOINT 401	6880.102	POUNDS
DEAD LOAD APPLIED TO JOINT 1011	13725.059	POUNDS
DEAD LOAD APPLIED TO JOINT 911	22755.727	POUNDS
DEAD LOAD APPLIED TO JOINT 808	24.369	POUNDS
DEAD LOAD APPLIED TO JOINT 1012	13725.094	POUNDS
DEAD LOAD APPLIED TO JOINT 912	22755.653	POUNDS
DEAD LOAD APPLIED TO JOINT 812	22668.711	POUNDS
DEAD LOAD APPLIED TO JOINT 709	24.328	POUNDS
DEAD LOAD APPLIED TO JOINT 656	6153.293	POUNDS
DEAD LOAD APPLIED TO JOINT 705	22.413	POUNDS
DEAD LOAD APPLIED TO JOINT 704	22.413	POUNDS
DEAD LOAD APPLIED TO JOINT 505	2023.574	POUNDS
DEAD LOAD APPLIED TO JOINT 702	22.446	POUNDS
DEAD LOAD APPLIED TO JOINT 651	5102.770	POUNDS
DEAD LOAD APPLIED TO JOINT 506	4552.242	POUNDS
DEAD LOAD APPLIED TO JOINT 708	24.369	POUNDS
DEAD LOAD APPLIED TO JOINT 653	5102.770	POUNDS
DEAD LOAD APPLIED TO JOINT 501	2003.133	POUNDS
DEAD LOAD APPLIED TO JOINT 301	9725.125	POUNDS
DEAD LOAD APPLIED TO JOINT 1111	3073.498	POUNDS
DEAD LOAD APPLIED TO JOINT 811	22668.715	POUNDS
DEAD LOAD APPLIED TO JOINT 1112	3073.355	POUNDS
DEAD LOAD APPLIED TO JOINT 712	18896.883	POUNDS
DEAD LOAD APPLIED TO JOINT 515	941.528	POUNDS
DEAD LOAD APPLIED TO JOINT 508	24.369	POUNDS

DEAD LOAD APPLIED TO JOINT 514 941,299 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 403 6933,160 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 603 4091,552 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 502 25,174 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 505 25,177 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 513 941,299 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 601 1152,264 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 601 4091,552 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 509 24,528 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 406 6879,840 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 504 25,177 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 711 18896,406 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 603 1152,264 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 206 6454,367 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 305 9725,922 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 306 9724,988 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 201 6454,211 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 512 9823,609 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 511 9855,535 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 613 1159,413 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 602 1308,612 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 611 1159,413 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 106 3055,301 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 205 1075,113 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 204 1075,113 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 203 6454,094 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 101 3055,027 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 202 1075,139 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 612 1253,581 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 105 1075,113 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 104 1075,113 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 103 3055,027 POUNDS ✓
DEAD LOAD APPLIED TO JOINT 102 1075,139 POUNDS ✓
TIME TO PROCESS 95 JOINTS 1,92 SECONDS,

GROSS WEIGHT OF STRUCTURE 446142,750 POUNDS

TIME TO SOLVE WITH 32 PARTITIONS 12,06 SECONDS
TIME TO PROCESS 95 JOINT DISPLACEMENTS 0,15 SECONDS,
TIME TO PROCESS 178 MEMBER DISTORTIONS 2,01 SECONDS,
TIME FOR STATICS CHECK 0,80 SECONDS,

LIST DISPLACEMENTS ALL

****
RESULTS OF LATEST ANALYSES
****

PROBLEM = ACMR TITLE = DYNAMIC ANALYSIS OF TRIPOD STRUCTURE AT 105 FT WATER --U.S.NAVY

ACTIVE UNITS INCH LB RAD FAHR SEC LBM

LOADING = DEAD GRAVITY AND BUOYANCY

RESULTANT JOINT DISPLACEMENTS = SUPPORTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1110	GLOBAL	0.0	0.0	0.0	-0.0000269	-0.0000404	0.0000042
1111	GLOBAL	0.0	0.0	0.0	-0.0000246	0.0000425	0.0000137
1112	GLOBAL	0.0	0.0	0.0	0.0000294	-0.0000021	0.0000099

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1010	GLOBAL	-0.0048751	0.0032998	-0.0076826	-0.0000122	-0.0000152	0.0000043
1007	GLOBAL	0.0001800	0.0030518	-0.0344624	-0.0000051	-0.0000050	0.0000030
910	GLOBAL	-0.0038539	0.0039348	-0.0156048	-0.0000007	0.0000053	0.0000042
1001	GLOBAL	0.0001710	0.0029435	-0.0346669	-0.0000044	-0.0000054	0.0000031
907	GLOBAL	-0.0004258	0.0033276	-0.0345815	0.0000033	0.0000110	0.0000034
810	GLOBAL	-0.0020760	0.0038618	-0.0212267	-0.0000014	0.0000019	0.0000044
1002	GLOBAL	0.0005353	0.0019408	-0.0341938	-0.0000023	-0.0000002	0.0000015
1004	GLOBAL	-0.0001542	0.0023953	-0.0338253	0.0000026	-0.0000015	0.0000016
901	GLOBAL	-0.0004536	0.0032114	-0.0342319	0.0000036	0.0000108	0.0000034
807	GLOBAL	0.0003815	0.0039743	-0.0331364	0.0000022	0.0000074	0.0000045
710	GLOBAL	-0.0007533	0.0034069	-0.0251229	0.0000012	0.0000052	0.0000047
1003	GLOBAL	0.0008650	0.0013261	-0.0347001	-0.0000036	0.0000055	0.0000044

RESULTANT JOINT DISPLACEMENTS - FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X RUT	Y RUT	Z RUT
1005	GLOBAL	-0.0002042	0.0015702	-0.0337275	0.0000025	0.0000020	0.0000012
903	GLOBAL	0.0014571	0.0015202	-0.0342556	0.0000077	-0.0000083	0.0000050
1006	GLOBAL	-0.0008592	0.0013827	-0.0339757	0.0000065	-0.0000002	0.0000037
906	GLOBAL	-0.0007287	0.0008001	-0.0335057	-0.0000108	-0.0000023	0.0000041
902	GLOBAL	0.0005017	0.0018634	0.0113601	0.0000041	-0.0000005	0.0000020
904	GLOBAL	-0.0001722	0.0022476	0.0117006	0.0000003	0.0000036	0.0000017
806	GLOBAL	-0.0018137	0.0008083	-0.0320124	-0.0000059	-0.0000016	0.0000063
801	GLOBAL	0.0003415	0.0038301	-0.0328998	0.0000025	0.0000072	0.0000046
707	GLOBAL	0.0004263	0.0034038	-0.0308810	-0.0000004	-0.0000002	0.0000049
510	GLOBAL	-0.0000260	0.0024799	-0.0282583	0.0000004	-0.0000031	0.0000051
1008	GLOBAL	0.0009684	0.0012347	-0.0345045	-0.0000040	0.0000053	0.0000045
908	GLOBAL	0.0015675	0.0013978	-0.0346022	0.0000068	-0.0000089	0.0000051
905	GLOBAL	-0.0001689	0.0014690	0.0116911	-0.0000004	-0.0000032	0.0000016
803	GLOBAL	0.0018746	0.0004091	-0.0329251	0.0000042	-0.0000052	0.0000076
1009	GLOBAL	-0.0009710	0.0013259	-0.0337862	0.0000064	-0.0000006	0.0000056
909	GLOBAL	-0.0008634	0.0007704	-0.0338442	-0.0000108	-0.0000021	0.0000041
809	GLOBAL	-0.0020122	0.0007635	-0.0322024	-0.0000059	-0.0000020	0.0000063
805	GLOBAL	-0.0005623	0.0008366	-0.0107507	0.0000009	-0.0000025	0.0000059
804	GLOBAL	-0.0003624	0.0025366	-0.0106493	0.0000014	0.0000023	0.0000065
706	GLOBAL	-0.0014201	0.0002907	-0.0298654	0.0000040	-0.0000024	0.0000082
701	GLOBAL	0.0004025	0.0032458	-0.0308826	-0.0000002	-0.0000003	0.0000050
802	GLOBAL	0.0011083	0.0016953	-0.0110412	0.0000029	-0.0000005	0.0000063
703	GLOBAL	0.0015610	0.0009148	-0.0309965	0.0000044	0.0000052	0.0000099
507	GLOBAL	0.0002052	0.0025245	-0.0290925	0.0000002	-0.0000038	0.0000051
401	GLOBAL	-0.0002123	0.0024004	-0.0287958	-0.0000005	-0.0000056	0.0000052
1011	GLOBAL	0.0049670	0.0053227	-0.0077021	-0.0000094	0.0000169	0.0000136
911	GLOBAL	0.0041007	0.0035607	-0.0156189	0.0000036	-0.0000029	0.0000134
808	GLOBAL	0.0020297	0.0002276	-0.0331364	0.0000046	-0.0000050	0.0000076
1012	GLOBAL	-0.0000792	-0.0031816	-0.0071082	0.0000120	-0.0000020	0.0000099
912	GLOBAL	-0.0004137	-0.0025057	-0.0148498	-0.0000023	-0.0000029	0.0000098
812	GLOBAL	-0.0009215	-0.0012969	-0.0203899	0.0000001	-0.0000029	0.0000098
709	GLOBAL	-0.0016781	0.0002126	-0.0297542	0.0000040	-0.0000028	0.0000081
656	GLOBAL	-0.0015629	-0.0000905	-0.0295457	0.0000031	-0.0000037	0.0000084
705	GLOBAL	-0.0001253	0.0007187	-0.0315545	0.0000028	0.0000004	0.0000042
704	GLOBAL	-0.0001224	0.0019935	-0.0315060	0.0000033	-0.0000003	0.0000066
503	GLOBAL	0.0028621	-0.0015408	-0.0295515	0.0000083	0.0000106	0.0000118
702	GLOBAL	0.0009811	0.0013643	-0.0321148	0.0000027	-0.0000008	0.0000048
651	GLOBAL	0.0003252	0.0031428	-0.0305402	0.0000031	0.0000006	0.0000052
506	GLOBAL	-0.0022084	-0.0012122	-0.0284679	0.0000102	-0.0000048	0.0000093
708	GLOBAL	0.0017668	0.0006583	-0.0309879	0.0000050	0.0000035	0.0000098
655	GLOBAL	0.0018276	0.0004986	-0.0306638	0.0000102	0.0000035	0.0000100
501	GLOBAL	0.0001795	0.0025741	-0.0291816	0.0000004	-0.0000039	0.0000051
301	GLOBAL	-0.0003571	0.0003248	-0.0314563	0.0000058	0.0000018	0.0000092
811	GLOBAL	0.0028802	0.0028927	-0.0212767	0.0000023	0.0000017	0.0000132

APPENDIX B

NATURAL FREQUENCIES

```
        ASP JOB NO. = 4866                                    DATE = 76.189

//LEC5655 JOB (0044270500277710IPCETENG90),'CHERN      ',PRTY=4,CLASS=D,C4866


        ELAPSED TIME ON MAIN = A        = 010.55, START TIME = 17.04.56

        DDNAME = SYSMSG                 PRINTED ON RM027PR1, LINES = 000123
        DDNAME = FT06F001               PRINTED ON RM027PR1, LINES = 000790
        LINES OUTPUT FOR THIS JOB = 000913

      CARDS FROM MAIN FOR THIS JOB = NONE
```

```
CHERN      00442705 9183          LEC5655          SYSMSG

LL              EEEEEEEEEEEEE    CCCCCCCCCCC    5555555555555    666666666666    5555555555555    5555555555555
LL              EEEEEEEEEEEEE   CCCCCCCCCCCCC   5555555555555   6666666666666   5555555555555   5555555555555
LL              EE              CC         CC   55              66              55              55
LL              EE              CC         CC   55              66              55              55
LL              EE              CC              55              66              55              55
LL              EEEEEEEEE       CC              555555555555    666666666666    555555555555    555555555555
LL              EEEEEEEEE       CC              5555555555555   6666666666666   5555555555555   5555555555555
LL              EE              CC                        55   66         66              55              55
LL              EE              CC         CC             55   66         66              55              55
LL              EE              CC         CC   55         55   66         66   55         55   55         55
LLLLLLLLLLLLL   EEEEEEEEEEEEE   CCCCCCCCCCCCC   5555555555555   6666666666666   5555555555555   5555555555555
LLLLLLLLLLLLL   EEEEEEEEEEEEE    CCCCCCCCCCC     55555555555     66666666666     55555555555     55555555555


          JJ    OOOOOOOOOOO    BBBBBBBBBBBB                    99999999999        11          88888888888     33333333333
          JJ   OOOOOOOOOOOOO   BBBBBBBBBBBBB                  9999999999999      111         8888888888888   3333333333333
          JJ   OO         OO   BB         BB                  99         99     1111         88         88   33         33
          JJ   OO         OO   BB         BB                  99         99       11         88         88              33
          JJ   OO         OO   BB         BB                  99         99       11         88         88              33
          JJ   OO         OO   BBBBBBBBBBBB                   9999999999999       11          88888888888            333
          JJ   OO         OO   BBBBBBBBBBBB                    999999999999       11          88888888888            333
          JJ   OO         OO   BB         BB                             99       11         88         88              33
JJ        JJ   OO         OO   BB         BB                             99       11         88         88              33
JJ        JJ   OO         OO   BB         BB                             99       11         88         88   33         33
JJJJJJJJJJJJJ   OOOOOOOOOOOOO   BBBBBBBBBBBBB                  9999999999999     111111       8888888888888   333333333333
 JJJJJJJJJJJ     OOOOOOOOOOO    BBBBBBBBBBBB                   999999999999      111111        88888888888     3333333333
```

B·1 VIBRATING IN X-DIRECTION

```
 SSSSSSSSSSS    YY        YY    SSSSSSSSSSS    MM         MM    SSSSSSSSSSS     GGGGGGGGGGG
SSSSSSSSSSSSS    YY      YY    SSSSSSSSSSSSS   MMM       MMM   SSSSSSSSSSSSS   GGGGGGGGGGGGG
SS         SS     YY    YY     SS         SS   MMMM     MMMM   SS         SS   GG         GG
SS                 YY  YY       SS             MM MM   MM MM   SS              GG         GG
SS                  YYYY        SS             MM  MM MM  MM   SS              GG
SSSSSSSSSSSS         YY         SSSSSSSSSSSS   MM   MMM   MM   SSSSSSSSSSSS    GG
 SSSSSSSSSSSS        YY          SSSSSSSSSSSS  MM    M    MM    SSSSSSSSSSSS   GG      GGGG
           SS        YY                     SS  MM         MM              SS   GG      GGGGG
           SS        YY                     SS  MM         MM              SS   GG         GG
SS         SS        YY         SS         SS  MM         MM   SS         SS   GG         GG
SSSSSSSSSSSSS        YY         SSSSSSSSSSSSS  MM         MM   SSSSSSSSSSSSS   GGGGGGGGGGGGG
 SSSSSSSSSSS         YY          SSSSSSSSSSS   MM         MM    SSSSSSSSSSS     GGGGGGGGGGG


CHERN      00442705 9183          LEC5655          SYSMSG
```

```
 ISV40 JOB ORIGIN FROM GROUP=RM027   , DSP=CR , DEVICE=RM027RD1, 0A3
//LEC5655 JOB (00442705002777101PCETENG96),'CHERN      ',PRTY=4,CLASS=D,C
// TIME=(060,00),REGION=500K
//*MAIN  LINES=(080,W),CARDS=(00,C),SYSTEM=A,FAILURE=RESTART
//*IN15656 EXEC *IN15656
//*IN15656.SYSIN DD *
/*


AMDS01 JOB 9183 (LEC5655 ) IN SETUP ON MAIN=A
AMDS02 STEPLIB  USING D ONL001 ON 100
 LEC5655  IEF403I LEC5655  STARTED     TIME=15.05.27
 LEC5655  IEF234E D 6A9,ASP6A9
 LEC5655  IEF234E D 6AB,ASP6AB
*LEC5655 *57 IECASP0 6A9 IS LEC5655  A *IN15656*IN15656FT06F001
*LEC5655 *97 IECASP0 6HA IS LEC5655     *IN15656*IN15656ASPI0001
 LEC5655  IEC202E K 6HA,019183,NL,LEC5655,*IN15656
 LEC5655  TI=LEC5655 CC=00442705 P=2777101 P J=CETENG96 N=CHERN       A=9183
 LEC5655  IEF404I LEC5655  ENDED       TIME=15.20.25
//LEC5655 JOB (00442705002777101PCETENG96),'CHERN      ',PRTY=4,CLASS=D,*
// TIME=(060,00),REGION=500K
//*IN15656 EXEC *IN15656
XX*IN15656 EXEC PGM=00UICEX5,PARM=00000                                  00020000
XXSTEPLIB DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,DSN=MAC.ICESV2P3         00040000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00060000
XX DSN=ICES.STRUDL.FIX                                                   00080000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00100000
XX DSNAME=MAC.SDOUBANG                                                   00120000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00140000
XX DSNAME=MAC.STR2P5                                                     00160000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00180000
XX DSNAME=MAC.TABLE2P5                                                   00200000
XXFT05F001 DD DDNAME=SYSIN                                               00220000
XXFT06F001 DD SYSOUT=A,DCB=(RECFM=FB,LRECL=133,BLKSIZE=798)              00240000
XXFT06F002 DD SYSOUT=A                                                   00260000
XXFT07F001 DD SYSOUT=B                                                   00280000
XXFT10F001 DD DUMMY                                                      00300000
XXDD1 DD UNIT=SYSDA,DCB=DSORG=DA,SPACE=(TRK,10)                          00320000
XXDD2 DD DSN=MAC.STR2P5,DD2,DISP=SHR,DCB=DSORG=DA,UNIT=SYSDA,            00340000
XX VOL=SER=ONL001                                                        00360000
XXDD3 DD DSN=DD3,SDOUBANG,DISP=SHR,DCB=DSORG=DA,UNIT=SYSDA,              00380000
XX VOL=SER=ONL001                                                        00400000
XXDD4 DD UNIT=SYSDA,DCB=(DSORG=DA,BLKSIZE=6300),SPACE=(6300,(500,50))    00420000
//*IN15656.SYSIN DD UNIT=(CTC,,DEFER),DSNAME=&&ASPI0001,
// DISP=(OLD,DELETE),VOL=SER=019183,DCB=(LRECL=80,BLKSIZE=80,RECFM=F)
//
IEF236I ALLOC. FOR LEC5655  *IN15656 *IN15656
IEF237I 100    ALLOCATED TO STEPLIB
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 6BA    ALLOCATED TO FT05F001
IEF237I 6A9    ALLOCATED TO FT06F001
IEF237I 6AB    ALLOCATED TO FT06F002
IEF237I 6BB    ALLOCATED TO FT07F001
IEF237I 102    ALLOCATED TO DD1
IEF237I 100    ALLOCATED TO DD2
IEF237I 100    ALLOCATED TO DD3
```

```
IEF237I 190.  ALLOCATED TO DD5
IEF237I 2..   ALLOCATED TO DD6
IEF142I =  EP WAS EXECUTED - COND CODE 0000
IEF285I      C.ICESV2P3                                    KEPT
IEF285I    VOL SER NOS= ONL001,
IEF285I    ICES.STRUDL.FIX                               KEPT
IEF285I    VOL SER NOS= ONL001,
IEF285I    MAC.SDOUBANG                                  KEPT
IEF285I    VOL SER NOS= ONL001,
IEF285I    MAC.STR2P5                                    KEPT
IEF285I    VOL SER NOS= ONL001,
IEF285I    MAC.TABLE2P5                                  KEPT
IEF285I    VOL SER NOS= ONL001,
IEF285I    SYS76190.T145641.RV001.LEC5655.ASPI0001       DELETED
IEF285I    VOL SER NOS= 019183,
IEF285I    SYS76190.T145641.RV001.LEC5655.ASPUA001       DELETED
IEF285I    VOL SER NOS= ASP6A9,
IEF285I    SYS76190.T145641.RV001.LEC5655.R0002424       DELETED
IEF285I    VOL SER NOS= SCR004,
IEF285I    MAC.STR2P5.DD2                                KEPT
IEF285I    VOL SER NOS= ONL001,
IEF285I    DD3.SDOUBANG                                  KEPT
IEF285I    VOL SER NOS= ONL001,
IEF285I    SYS76190.T145641.RV001.LEC5655.R0002425       DELETED
IEF285I    VOL SER NOS= SCR006,
IEF373I STEP /*IN15656/ START 76190,1505
IEF374I STEP /*IN15656/ STOP  76190,1520 CPU   0MIN 27.15SEC STOR VIRT 512K
$$$
```

```
LL          EEEEEEEEEEEE   CCCCCCCCCCC   5555555555555   666666666666   5555555555555   5555555555555
LL          EEEEEEEEEEEE  CCCCCCCCCCCCC  5555555555555  6666666666666  5555555555555  5555555555555
LL          EE            CC        CC   55             66             55             55
LL          EE            CC        CC   55             66             55             55
LL          EE            CC             55             66             55             55
LL          EEEEEEEEE     CC             555555555555   666666666666   555555555555   555555555555
LL          EEEEEEEEE     CC             5555555555555  6666666666666  5555555555555  5555555555555
LL          EE            CC                      55   66        66             55             55
LL          EE            CC        CC            55   66        66             55             55
LL          EE            CC        CC   55        55   66        66   55        55   55        55
LLLLLLLLLLLLL EEEEEEEEEEEEE CCCCCCCCCCCCC 5555555555555 6666666666666 5555555555555 5555555555555
LLLLLLLLLLLLL EEEEEEEEEEEEE  CCCCCCCCCCC   55555555555   66666666666   55555555555   55555555555


          JJ   00000000000   BBBBBBBBBBB                 99999999999       11        88888888888   33333333333
          JJ  0000000000000  BBBBBBBBBBBBB               9999999999999     111       8888888888888  3333333333333
          JJ  00        00   BB        BB                99        99    1111       88        88   33        33
          JJ  00        00   BB        BB                99        99      11       88        88             33
          JJ  00        00   BB        BB                99        99      11       88        88             33
          JJ  00        00   BBBBBBBBBBB                 9999999999999     11        88888888888           333
          JJ  00        00   BBBBBBBBBBB                 999999999999      11        88888888888           333
          JJ  00        00   BB        BB                          99      11       88        88             33
JJ        JJ  00        00   BB        BB                          99      11       88        88             33
JJ        JJ  00        00   BB        BB                          99      11       88        88   33        33
JJJJJJJJJJJJJ 0000000000000 BBBBBBBBBBBBB               9999999999999   111111     8888888888888  333333333333
 JJJJJJJJJJJ   00000000000   BBBBBBBBBBB                 999999999999    111111      88888888888   3333333333


FFFFFFFFFFFFF  TTTTTTTTTTTT     0000000     666666666666  FFFFFFFFFFFFF     0000000      000000          11
FFFFFFFFFFFFF  TTTTTTTTTTTT    000000000    6666666666666  FFFFFFFFFFFFF    000000000     000000 00       111
FF                 TT        00        00   66            FF              00        00   00        00     1111
FF                 TT        00        00   66            FF              00        00   00        00       11
FF                 TT        00        00   66            FF              00        00   00        00       11
FFFFFFFFF          TT        00        00   666666666666  FFFFFFFFF       00        00   00        00       11
FFFFFFFFF          TT        00        00   6666666666666 FFFFFFFFF       00        00   00        00       11
FF                 TT        00        00   66        66  FF              00        00   00        00       11
FF                 TT        00        00   66        66  FF              00        00   00        00       11
FF                 TT        00        00   66        66  FF              00        00   00        00       11
FF                 TT         000000000    6666666666666  FF               000000000     000000000     111111
FF                 TT          0000000      66666666666   FF                0000000       0000000      111111
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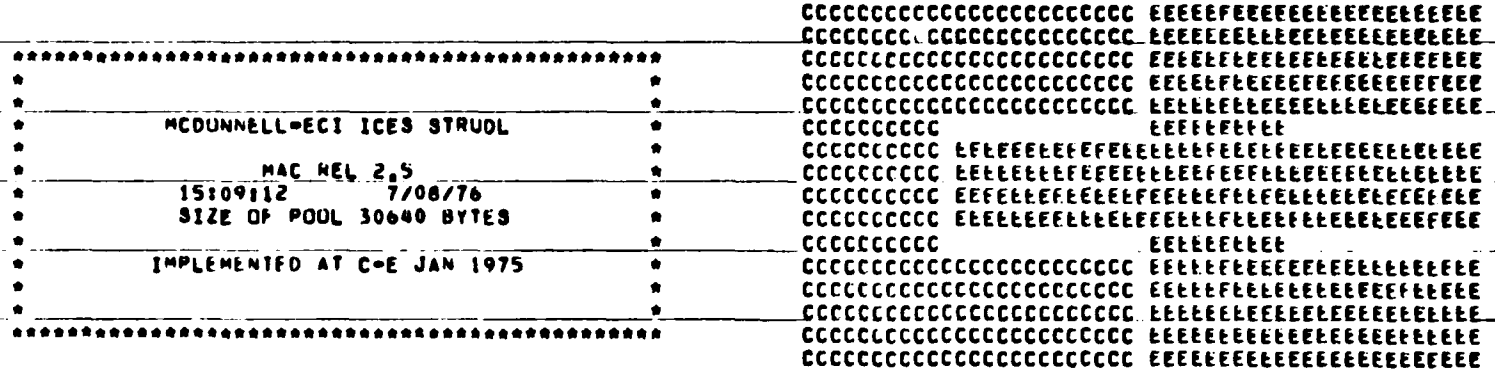
STRUDL 'ACMR' 'DYNAMIC ANALYSIS OF TRIPOD STRUCTURE AT 105 FT WATER --U.S.NAVY'



DUMP TIME

TYPE SPACE FRAME

UNIT FEET

JOINT COORDINATES

1110	34.21	-19.75	-15.00	S
1010	32.04	-18.50	-0.01	
1007	34.21	-19.75	0.41	
910	27.42	-15.83	31.99	
1001	32.04	-18.50	0.0	
907	29.59	-17.08	32.41	
810	22.79	-13.16	63.99	
1002	0.	-18.50	0.0	
1004	16.02	9.25	0.0	
901	27.42	-15.83	32.00	

807	24,96	-14,41	64,41
710	18,76	-10,83	91,99
1003	-32,04	-18,50	0,0
1005	-16,02	9,25	0,0
903	-27,42	-15,83	32,00
1006	0,	37,00	0,0
906	0,	31,66	32,00
902	0,	-15,83	32,00
904	13,71	7,91	32,00
806	0,	26,32	64,00
801	22,79	-13,16	64,00
707	20,93	-12,08	92,41
510	15,15	-8,75	116,99
1008	-34,21	-19,75	0,41
908	-29,59	-17,08	32,41
905	-13,71	7,91	32,00
803	-22,79	-13,16	64,00
1009	0,	39,50	0,41
909	0,	34,16	32,41
809	0,	28,82	64,41
805	-11,40	6,58	64,00
804	11,40	6,58	64,00
706	0,	21,66	92,0
701	18,76	-10,83	92,0
802	0,	-13,16	64,00

703	-18,76	-10,83	92,0	
507	17,32	-10,00	117,41	
401	14,50	-8,37	121,5	
1011	-32,04	-18,50	-0,01	
911	-27,42	-15,83	31,99	
808	-24,96	-14,41	64,41	
1012	0,	37,00	-0,01	
912	0,	31,66	31,99	
812	0,	26,32	63,99	
709	0,	24,16	92,41	
656	0,	20,49	99,00	
705	-9,38	5,41	92,0	
704	9,38	5,41	92,0	
503	-15,15	-8,75	117,0	
702	0,	-10,83	92,0	
651	17,74	-10,25	99,00	
506	0,	17,49	117,0	
708	-20,93	-12,08	92,41	
653	-17,74	-10,25	99,00	
501	15,15	-8,75	117,0	
301	14,50	-8,37	150,0	
1111	-34,21	-19,75	-15,00	S
811	-22,79	-13,16	63,99	
1112	0,	39,50	-15,00	S
712	0,	21,66	91,99	

515	0.	20.49	117.00
508	-17.32	-10.00	117.41
514	-17.74	-10.25	117.00
403	-14.	-8.37	121.5
603	-16.01	-9.25	111.00
502	0.	-8.75	117.0
505	-7.575	4.37	117.0
513	17.74	-10.25	117.00
661	17.74	-15.25	99.00
601	16.01	-9.25	111.00
509	0.	19.99	117.41
406	0.	16.74	121.5
504	7.575	4.37	117.0
711	-18.76	-10.83	91.99
663	-17.74	-15.25	99.00
206	0.	16.74	165.0
303	-14.50	-8.37	150.0
306	0.	16.74	150.0
201	14.50	-8.37	165.0
512	0.	17.49	116.99
511	-15.15	-8.75	116.99
613	-16.01	-15.25	111.00
662	0.	-15.25	99.00
611	16.01	-15.25	111.00
106	0.	16.74	180.0

205	-7.25	4.18	165.0
204	7.25	4.18	165.0
203	-14.50	-8.37	165.0
101	14.50	-8.37	180.0
202	0.	-8.37	165.0
612	0.	-15.25	111.00
105	-7.25	4.18	180.0
104	7.25	4.18	180.0
103	-14.50	-8.37	180.0
102	0.	-8.37	180.0

JOINT RELEASES

1110 1111 1112 MOM X MOM Y MOM Z

MEMBER INCIDENCES

41	101	102
42	102	103
43	103	105
44	105	106
45	101	104
46	104	106
47	102	104
48	102	105
49	104	105
50	201	202
51	202	203
52	203	205

53	205	206
54	201	204
55	204	206
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88	653	663
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91	661	662
92	662	663
93	611	661
94	612	662
95	613	663
96	501	703
97	503	706
98	506	701
99	701	702
100	504	505
101	702	703
102	703	705

103	705	706
104	701	704
105	704	706
106	702	704
107	702	705
108	704	705
109	701	707
110	707	710
111	703	708
112	708	711
113	706	709
114	709	712
115	701	806
116	703	801
117	701	803
118	801	802
119	802	803
120	803	805
121	805	806
122	801	804
123	804	806
124	802	804
125	802	805
126	804	805
127	801	807

128	807	810
129	803	808
130	808	811
131	806	809
132	809	812
133	801	903
134	803	906
135	806	901
136	901	902
137	902	903
138	903	905
139	905	906
140	901	904
141	904	906
142	902	904
143	902	905
144	904	905
145	901	907
146	907	910
147	903	908
148	908	911
149	906	909
150	909	912
151	901	1002
152	903	1002

153	903	1005
154	906	1005
155	901	1004
156	906	1004
157	1001	1002
158	1002	1003
159	1003	1005
160	1005	1006
161	1001	1004
162	1004	1006
163	1002	1004
164	1002	1005
165	1004	1005
166	1001	1007
167	1007	1010
168	1003	1008
169	1008	1011
170	1006	1009
171	1009	1012
172	101	201
173	103	203
174	106	206
175	201	301
176	203	303
177	206	306

178	301	401
179	303	403
180	306	406
181	401	501
182	403	503
183	406	506
184	501	601
185	503	603
186	506	656
187	601	651
188	603	653
189	651	701
190	653	703
191	656	706
192	701	801
193	703	803
194	706	806
195	801	901
196	803	903
197	806	906
198	901	1001
199	903	1003
200	906	1006
201	401	510
202	403	511

```
203        406        512
204        510        710
205        511        711
206        512        712
207        710        810
208        711        811
209        712        812
210        810        910
211        811        911
212        812        912
213        910        1010
214        911        1011
215        912        1012
216        1010       1110
217        1011       1111
218        1012       1112
MEMBER RELEASES
74 76 78 110 112 114 128 130 132  END MOM Y Z  END FORCE Y Z
146 148 150 167 169 171 END MOM Y Z  END FORCE Y Z
UNIT INCH LBS
MEMBER PROPERTIES PRISMATIC
41 TO 46 50 TO 55  AX 14.70  IX 1.25  IY 802.  IZ 40.2  SY 89.1  SZ 10.7
47 TO 49 56 TO 58  AX 7.06  IX .343  IY 82.5  IZ 18.2  SY 20.8  SZ 5.61
59 TO 64 71 72 79 TO 81 100 101 T  105 99 -
        AX 19.24  IX 725.28  IY 361.64  IZ 361.64  SY 56.73  SZ 56.73
106 TO 108 -
```

```
        AX 14.58  IX 558.82  IY 279.41  IZ 279.41  SY 43.83  SZ 43.83

124 TO 126 142 TO 144 163 TO 165 =
        AX 16.05  IX 745.72  IY 372.86  IZ 372.86  SY 53.26  SZ 53.26

89 TO 92 =
        AX 12.76  IX 211.48  IY 105.74  IZ 105.74  SY 24.52  SZ 24.52

85 TO 88 93 TO 95 =
        AX 26.27  IX 649.2   IY 324.6   IZ 324.6   SY 60.39  SZ 60.39

65 TO 70 151 TO 156 =
        AX 24.35  IX 1464.2  IY 732.1   IZ 732.1   SY 91.52  SZ 91.52

118 TO 123 136 TO 141 157 TO 162 =
        AX 27.49  IX 2106.88 IY 1053.44 IZ 1053.44 SY 117.05 SZ 117.05

96 TO 98 115 TO 117 133 TO 135 =
        AX 38.04  IX 3574.86 IY 1787.43 IZ 1787.43 SY 178.74 SZ 178.74

172 TO 180 =
        AX 91.11  IX 19182.8 IY 9591.4  IZ 9591.4  SY 639.43 SZ 639.43

201 TO 206 213 TO 215 =
        AX 221.29 IX 89816.8 IY 44908.4 IZ 44908.4  SY 2138.5 SZ 2138.5

207 TO 212 =
        AX 251.33 IX 100808. IY 50404.  IZ 50404.  SY 2400.2 SZ 2400.2

216 TO 218 =
        AX 136.46 IX 41260.8 IY 20630.4 IZ 20630.4 SY 1146.1 SZ 1146.1

181 TO 191 =
        AX 141.37 IX 71604.9 IY 35802.4 IZ 35802.4 SY 1556.6 SZ 1556.6

192 TO 200 =
        AX 71.47  IX 36995.4 IY 18497.7 IZ 18497.7 SY 804.25 SZ 804.25

82 TO 84 =
        AX 27.49  IX 2106.88 IY 1053.44 IZ 1053.44 SY 117.05 SZ 117.05

73 TO 78 109 TO 114 127 TO 132 145 TO 150 166 TO 171 =
        AX 50.0   IX 30000.  IY 30000.  IZ 30000.  SY 3000.  SZ 6000.

CONSTANTS

 E 30000000. ALL

RAYLEIGH LOADING 'DEAD' 'VIBRATING IN X-DIRECTION'
```

JOINT LOADS

1110	FORCE	X	5549.719
1010	FORCE	X	25938.352
1007	FORCE	X	28.938
910	FORCE	X	42208.660
1001	FORCE	X	18962.758
907	FORCE	X	28.938
810	FORCE	X	40924.648
1002	FORCE	X	10609.203
1004	FORCE	X	11588.656
901	FORCE	X	43368.656
807	FORCE	X	28.938
710	FORCE	X	35021.695
1003	FORCE	X	18962.758
1005	FORCE	X	11588.656
903	FORCE	X	43558.879
1006	FORCE	X	19787.609
906	FORCE	X	43988.242
902	FORCE	X	4918.473
904	FORCE	X	5904.473
806	FORCE	X	40996.000
801	FORCE	X	40759.152
707	FORCE	X	28.938
510	FORCE	X	18803.129
1008	FORCE	X	28.938

908	FORCE	X	28,938
905	FORCE	X	5904,473
803	FORCE	X	40408,461
1009	FORCE	X	28,890
909	FORCE	X	28,890
809	FORCE	X	28,890
805	FORCE	X	4908,734
804	FORCE	X	4908,734
706	FORCE	X	22557,480
701	FORCE	X	30846,754
802	FORCE	X	4088,820
703	FORCE	X	26883,199
507	FORCE	X	28,938
401	FORCE	X	9896,918
1011	FORCE	X	25938,352
911	FORCE	X	42208,660
808	FORCE	X	28,938
1012	FORCE	X	25938,480
912	FORCE	X	42208,527
812	FORCE	X	40924,652
709	FORCE	X	28,890
656	FORCE	X	15290,152
705	FORCE	X	2854,658
704	FORCE	X	2854,658
503	FORCE	X	11373,055

702	FORCE	X	2637,746
651	FORCE	X	12046,922
506	FORCE	X	18550,715
708	FORCE	X	28,938
653	FORCE	X	12046,922
501	FORCE	X	11452,137
301	FORCE	X	9725,125
1111	FORCE	X	5549,719
811	FORCE	X	40924,648
1112	FORCE	X	5549,461
712	FORCE	X	35022,590
515	FORCE	X	941,528
508	FORCE	X	28,938
514	FORCE	X	941,299
403	FORCE	X	10014,379
603	FORCE	X	10669,531
502	FORCE	X	2617,854
505	FORCE	X	3031,822
513	FORCE	X	941,299
661	FORCE	X	1152,264
601	FORCE	X	10669,531
509	FORCE	X	28,890
406	FORCE	X	9896,340
504	FORCE	X	3031,822
711	FORCE	X	35021,695

603	FORCE	X	1152,264
206	FORCE	X	6454,367
303	FORCE	X	9725,922
306	FORCE	X	9724,988
201	FORCE	X	6454,211
512	FORCE	X	18803,172
511	FORCE	X	18864,285
613	FORCE	X	1159,413
602	FORCE	X	1308,612
611	FORCE	X	1159,413
106	FORCE	X	3055,301
205	FORCE	X	1075,113
204	FORCE	X	1075,113
203	FORCE	X	6454,094
101	FORCE	X	3055,027
202	FORCE	X	1075,139
612	FORCE	X	1233,381
105	FORCE	X	1075,113
104	FORCE	X	1075,113
103	FORCE	Y	3055,027
102	FORCE	X	1075,139

LOADING LIST ALL

STIFFNESS ANALYSIS

TIME FOR CONSISTENCY CHECKS	0,15 SECONDS,
TIME TO GENERATE 178 ELEMENT STIF, MATRICES	1,30 SECONDS,
TIME TO PROCESS MEMBER RELEASES	0,07 SECONDS
TIME TO ASSEMBLE THE STIFFNESS MATRIX	3,44 SECONDS
TIME TO PROCESS 95 JOINTS	1,23 SECONDS,

```
TIME TO SOLVE WITH   32 PARTITIONS              12.18 SECONDS
TIME TO PROCESS    95 JOINT DISPLACEMENTS        0.16 SECONDS.
TIME TO PROCESS  178 MEMBER DISTORTIONS          2.00 SECONDS.
TIME FOR STATICS CHECK                           0.33 SECONDS.

UNIT CYCLES SECONDS

LIST RAYLEIGH NATURAL FREQUENCY

RESULTS OF RAYLEIGH ANALYSIS
****************************************************************

LOAD DEAD      FREQUENCY=     1.4905 HZ, PERIOD=     0.6709 SEC


FINISH
```

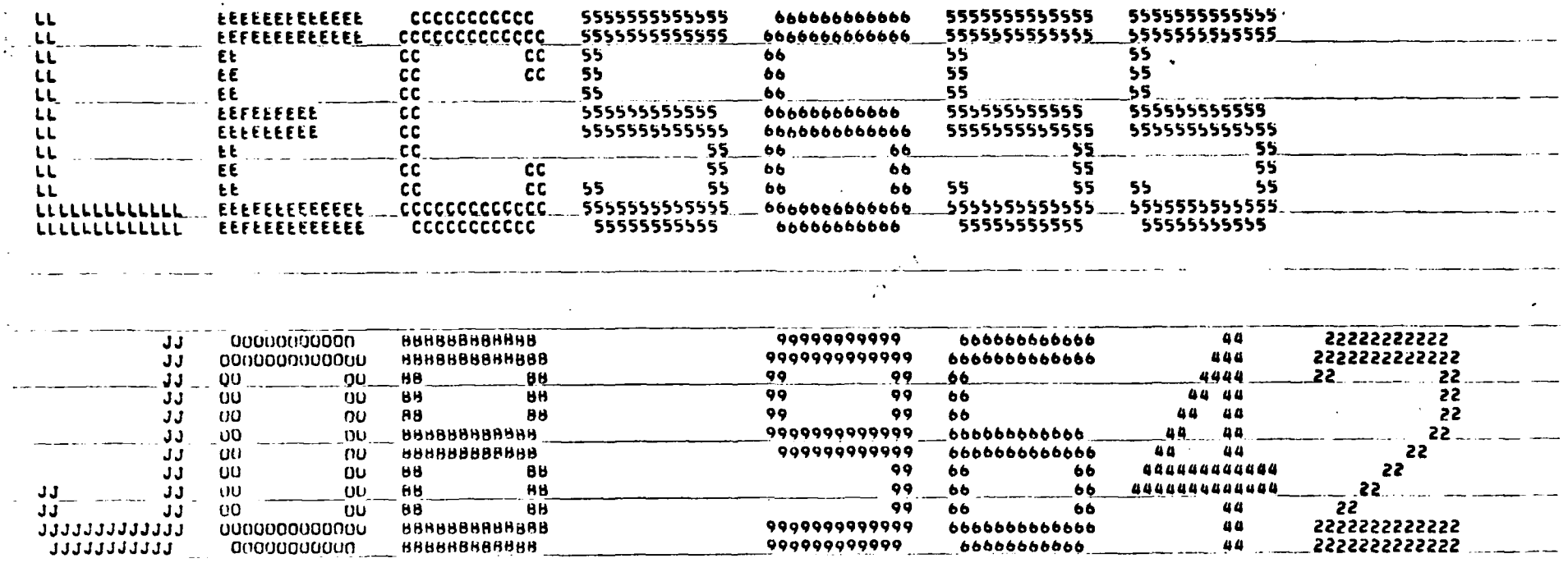
ASP JOB NO. = 9183 DATE = 76,190

```
//LEC5655 JOB (00442705002777101PCETENG96),'CHERN      ',PRTY=4,CLASS=D,C9183
```

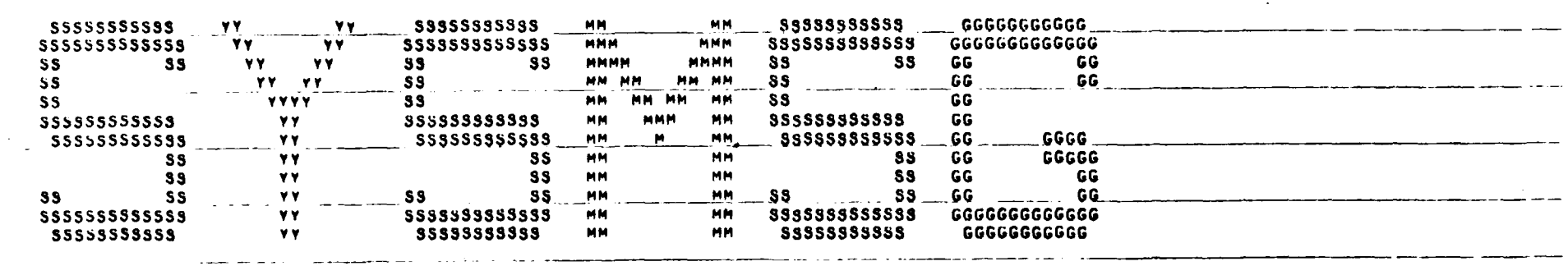
ELAPSED TIME ON MAIN = A = 015,01, START TIME = 15,05,25

DDNAME = SYSMSG PRINTED ON RM027PR1, LINES = 000124
DDNAME = FT06F001 PRINTED ON RM027PR1, LINES = 000548
LINES OUTPUT FOR THIS JOB = 000672

CARDS FROM MAIN FOR THIS JOB = NONE

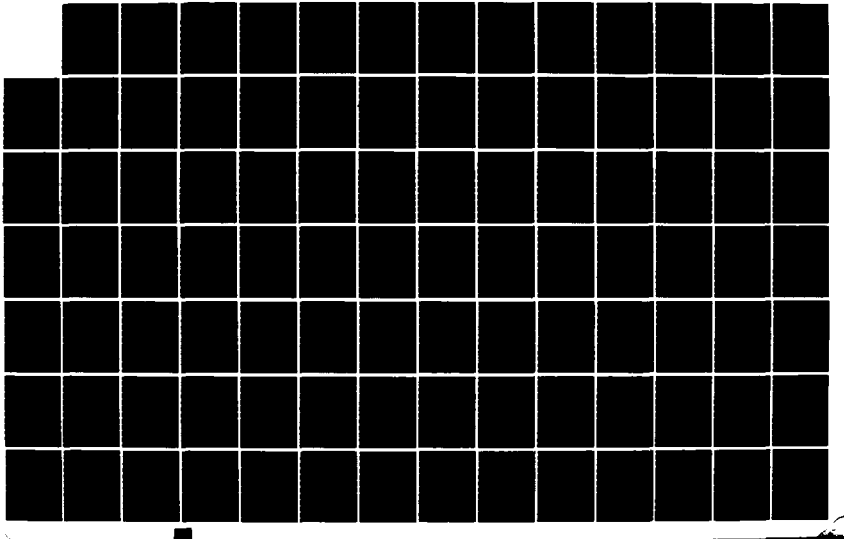


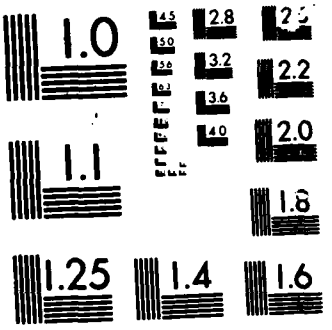
B-2 VIBRATING IN Y-DIRECTION



AD-A165 616 NATURAL FREQUENCY AND EARTHQUAKE ANALYSIS EAST COAST AIR COMBAT MANEUVERI..(U) CREST ENGINEERING INC TULSA OK SEP 76 27-771-99 CHES/NAVFAC-FPO-7611 3/7

UNCLASSIFIED N62477-76-C-0179 F/G 13/13 NL





MICROCOPY RESOLUTION TEST CHART

```
 ISV40 JOB ORIGIN FROM GROUP=RM027   , DSP=CR , DEVICE=RM027RD1, 0A3
//LEC5655 JOB (00442705002777101PCETENG96),'CHERN      ',PRTY=4,CLASS=D,C
// TIME=(060,00),REGION=500K
//*MAIN  LINES=(040,4),CARDS=(00,C),SYSTEM=A,FAILURE=RESTART
//*IN15656 EXEC *IN15656
//*IN15656.SYSIN DD *
/*



AMDS01 JOB 9642 (LEC5655 ) IN SETUP ON MAIN=A
AMDS02 STEPLIB  USING D ONL001 ON 100
 LEC5655  IEF403I LEC5655  STARTED     TIME=15,46,19
 LEC5655  IEF234E D 6AB,ASP06AB
 LEC5655  IEF234E D 6AE,ASP06AE
*LEC5655 *17 IECASP0 6AB IS LEC5655  A *IN15656*IN15656FT06F001
*LEC5655 *30 IECASP0 6AC IS LEC5655    *IN15656*IN15656ASPI0001
 LEC5655  IEC202E K 6AC,019642,NL,LEC5655,*IN15656
 LEC5655  TI=LEC5655 CC=00442705 P=2777101 P J=CETENG96 N=CHERN       A=9642
 LEC5655  IEF404I LEC5655  ENDED       TIME=15,52,32
//LEC5655 JOB (00442705002777101PCETENG96),'CHERN      ',PRTY=4,CLASS=D,*
// TIME=(060,00),REGION=500K
//*IN15656 EXEC *IN15656
XX*IN15656 EXEC PGM=000ICEX5,PARM=00000                                  00020000
XXSTEPLIB DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,DSN=MAC.ICESV2P5         00040000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00060000
XX DSN=ICES.STRUDL.PIA                                                   00080000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00100000
XX DSNAME=MAC.SDOUBANG                                                   00120000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00140000
XX DSNAME=MAC.STR2P5                                                     00160000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                         00180000
XX DSNAME=MAC.TABLE2P5                                                   00200000
XXFT05F001 DD DDNAME=SYSIN                                               00220000
XXFT06F001 DD SYSOUT=A,DCB=(RECFM=FB,LRECL=133,BLKSIZE=798)              00240000
XXFT06F002 DD SYSOUT=A                                                   00260000
XXFT07F001 DD SYSOUT=B                                                   00280000
XXFT10F001 DD DUMMY                                                      00300000
XXD01 DD UNIT=SYSDA,DCB=DSORG=DA,SPACE=(TRK,10)                          00320000
XXDD2 DD DSN=MAC.STR2P5,DD2,DISP=SHR,DCB=DSORG=DA,UNIT=SYSDA,            00340000
XX VOL=SER=ONL001                                                        00360000
XXDD3 DD DSN=DD3,SDOUBANG,DISP=SHR,DCB=DSORG=DA,UNIT=SYSDA,              00380000
XX VOL=SER=ONL001                                                        00400000
XXDD4 DD UNIT=SYSDA,DCB=(DSORG=DA,BLKSIZE=6300),SPACE=(6300,(500,50))    00420000
//*IN15656.SYSIN DD UNIT=(CTC,,DEFER),DSNAME=&&ASPI0001,                 *
// DISP=(OLD,DELETE),VOL=SER=019642,DCB=(LRECL=80,BLKSIZE=80,RECFM=F)
//
IEF236I ALLOC. FOR LEC5655  *IN15656 *IN15656
IEF237I 100    ALLOCATED TO STEPLIB
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 100    ALLOCATED TO
IEF237I 6AC    ALLOCATED TO FT05F001
IEF237I 6AB    ALLOCATED TO FT06F001
IEF237I 6AE    ALLOCATED TO FT06F002
IEF237I 6AF    ALLOCATED TO FT07F001
IEF237I 102    ALLOCATED TO DD1
IEF237I 100    ALLOCATED TO DD2
```

```
CHERN      00442705 9642 A        LEC5655          FT06F001

LL              EEEEEEEEEEEEE    CCCCCCCCCCC    5555555555555    666666666666    5555555555555    5555555555555
LL              EEEEEEEEEEEEE    CCCCCCCCCCCCC   5555555555555   6666666666666    5555555555555    5555555555555
LL              EE               CC         CC   55              66              55              55
LL              EE               CC         CC   55              66              55              55
LL              EE               CC              55              66              55              55
LL              EEEEEEEEE        CC              555555555555    666666666666    555555555555    555555555555
LL              EEEEEEEEE        CC              5555555555555   6666666666666   5555555555555   5555555555555
LL              EE               CC                        55   66         66              55              55
LL              EE               CC         CC             55   66         66              55              55
LL              EE               CC         CC   55         55   66         66   55         55   55         55
LLLLLLLLLLLLL   EEEEEEEEEEEEE    CCCCCCCCCCCCC   5555555555555   6666666666666   5555555555555   5555555555555
LLLLLLLLLLLLL   EEEEEEEEEEEEE    CCCCCCCCCCC     55555555555     66666666666     55555555555     55555555555


          JJ    00000000000    BBBBBBBBBBBB                    99999999999     666666666666          44      22222222222
          JJ    0000000000000   BBBBBBBBBBBBB                  9999999999999   6666666666666         444     2222222222222
          JJ    00         00   BB         BB                  99         99   66                   4444    22         22
          JJ    00         00   BB         BB                  99         99   66                  44 44                22
          JJ    00         00   BB         BB                  99         99   66                 44  44                22
          JJ    00         00   BBBBBBBBBBBB                   9999999999999   666666666666      44   44              22
          JJ    00         00   BBBBBBBBBBBB                    999999999999   6666666666666    44    44            22
          JJ    00         00   BB         BB                             99   66         66   444444444444        22
JJ        JJ    00         00   BB         BB                             99   66         66   4444444444444      22
JJ        JJ    00         00   BB         BB                             99   66         66          44       22
JJJJJJJJJJJJJ   0000000000000   BBBBBBBBBBBBB                  9999999999999   6666666666666          44     2222222222222
 JJJJJJJJJJJ     00000000000    BBBBBBBBBBBB                   999999999999    66666666666           44     2222222222222


FFFFFFFFFFFFF   TTTTTTTTTTTT       0000000       666666666666   FFFFFFFFFFFFF      0000000        0000000          11
FFFFFFFFFFFFF   TTTTTTTTTTTT      000000000      6666666666666   FFFFFFFFFFFFF     000000000      000000000         111
FF                   TT          00        00   66             FF              00        00    00        00       1111
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FF                   TT            0000000        66666666666   FF                0000000        0000000         111111


CHERN      00442705 9642 A        LEC5655          FT06F001
```

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MCDONNELL-ECI ICES EXECUTIVE SYSTEM

MAC REL. 2,3 - RELEASED  2/5/73
TIME=15,46,22,  7/08/76
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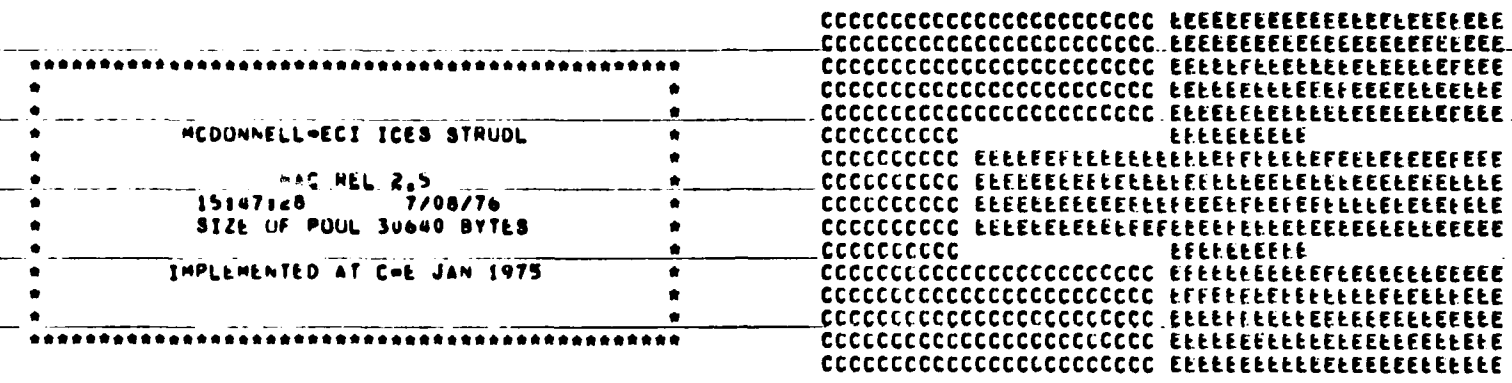
STRUDL 'ACMR' 'DYNAMIC ANALYSIS OF TRIPUD STRUCTURE AT 105 FT WATER --U.S.NAVY'



DUMP TIME

TYPE SPACE FRAME

UNIT FEET

JOINT COORDINATES

1110	34.21	-19.75	-15.00	S
1010	32.04	-18.50	-0.01	
1007	34.21	-19.75	0.41	
910	27.42	-15.83	31.99	
1001	32.04	-18.50	0.0	
907	29.59	-17.08	32.41	
810	22.79	-13.16	63.99	
1002	0.	-18.50	0.0	
1004	16.02	9.25	0.0	
901	27.42	-15.83	32.00	

807	24,96	-14,41	64,41
710	18,76	-10,83	91,99
1003	-32,04	-18,50	0,0
1005	-16,02	9,25	0,0
903	-27,42	-15,83	32,00
1006	0,	37,00	0,0
906	0,	31,66	32,00
902	0,	-15,83	32,00
904	13,71	7,91	32,00
806	0,	26,32	64,00
801	22,79	-13,16	64,00
707	20,93	-12,08	92,41
510	15,15	-8,75	116,99
1008	-34,21	-19,75	0,41
908	-29,59	-17,08	32,41
905	-13,71	7,91	32,00
803	-22,79	-13,16	64,00
1009	0,	39,50	0,41
909	0,	34,16	32,41
809	0,	28,82	64,41
805	-11,40	6,58	64,00
804	11,40	6,58	64,00
706	0,	21,66	92,0
701	18,76	-10,83	92,0
802	0,	-13,16	64,00

807	24,96	-14,41	64,41
710	18,76	-10,83	91,99
1003	-32,04	-18,50	0,0
1005	-16,02	9,25	0,0
903	-27,42	-15,83	32,00
1006	0,	37,00	0,0
906	0,	31,66	32,00
902	0,	-15,83	32,00
904	13,71	7,91	32,00
806	0,	26,32	64,00
801	22,79	-13,16	64,00
707	20,93	-12,08	92,41
510	15,15	-8,75	116,99
1008	-34,21	-19,75	0,41
908	-29,59	-17,08	32,41
905	-13,71	7,91	32,00
803	-22,79	-13,16	64,00
1009	0,	39,50	0,41
909	0,	34,16	32,41
809	0,	28,82	64,41
805	-11,40	6,58	64,00
804	11,40	6,58	64,00
706	0,	21,66	92,0
701	18,76	-10,83	92,0
802	0,	-13,16	64,00

703	-18,76	-10,83	92,0	
507	17,32	-10,00	117,41	
401	14,50	-8,37	121,5	
1011	-32,04	-18,50	-0,01	
911	-27,42	-15,83	31,99	
808	-24,96	-14,41	64,41	
1012	0,	37,00	-0,01	
912	0,	31,66	31,99	
812	0,	26,32	63,99	
709	0,	24,16	92,41	
656	0,	20,49	99,00	
705	-9,38	5,41	92,0	
704	9,38	5,41	92,0	
503	-15,15	-8,75	117,0	
702	0,	-10,83	92,0	
651	17,74	-10,25	99,00	
506	0,	17,49	117,0	
708	-20,93	-12,08	92,41	
653	-17,74	-10,25	99,00	
501	15,15	-8,75	117,0	
301	14,50	-8,37	150,0	
1111	-34,21	-19,75	-15,00	8
811	-22,79	-13,16	63,99	
1112	0,	39,50	-15,00	8
712	0,	21,66	91,99	

515	0,	20,49	117,00
508	-17,32	-10,00	117,41
514	-17,74	-10,25	117,00
403	-14,	-8,37	121,5
603	-16,01	-9,25	111,00
502	0,	-8,75	117,0
505	-7,575	4,37	117,0
513	17,74	-10,25	117,00
661	17,74	-15,25	99,00
601	16,01	-9,25	111,00
509	0,	19,99	117,41
406	0,	16,74	121,5
504	7,575	4,37	117,0
711	-18,76	-10,83	91,99
663	-17,74	-15,25	99,00
206	0,	16,74	165,0
303	-14,50	-8,37	150,0
306	0,	16,74	150,0
201	14,50	-8,37	165,0
512	0,	17,49	116,99
511	-15,15	-8,75	116,99
613	-16,01	-15,25	111,00
662	0,	-15,25	99,00
611	16,01	-15,25	111,00
106	0,	16,74	180,0

205	-7,25	4,18	165,0
204	7,25	4,18	165,0
203	-14,50	-8,37	165,0
101	14,50	-8,37	180,0
202	0,	-8,37	165,0
612	0,	-15,25	111,00
105	-7,25	4,18	180,0
104	7,25	4,18	180,0
103	-14,50	-8,37	180,0
102	0,	-8,37	180,0

JOINT RELEASES

1110 1111 1112 MOM X MOM Y MOM Z

MEMBER INCIDENCES

41	101	102
42	102	103
43	103	105
44	105	106
45	101	104
46	104	106
47	102	104
48	102	105
49	104	105
50	201	202
51	202	203
52	203	205

53	205	206
54	201	204
55	204	206
56	202	204
57	202	205
58	204	205
59	201	303
60	203	306
61	206	301
62	301	303
63	303	306
64	301	306
65	501	502
66	502	503
67	503	505
68	505	506
69	501	504
70	504	506
71	502	504
72	502	505
73	501	507
74	507	510
75	503	508
76	508	511
77	506	509

78	509	512
79	501	513
80	503	514
81	506	515
82	513	651
83	514	653
84	515	656
85	601	611
86	603	613
87	651	661
88	653	663
89	611	612
90	612	613
91	661	662
92	662	663
93	611	661
94	612	662
95	613	663
96	501	703
97	503	706
98	506	701
99	701	702
100	504	505
101	702	703
102	703	705

128	807	810
129	803	808
130	808	811
131	806	809
132	809	812
133	801	903
134	803	906
135	806	901
136	901	902
137	902	903
138	903	905
139	905	906
140	901	904
141	904	906
142	902	904
143	902	905
144	904	905
145	901	907
146	907	910
147	903	908
148	908	911
149	906	909
150	909	912
151	901	1002
152	903	1002

153	903	1005
154	906	1005
155	901	1004
156	906	1004
157	1001	1002
158	1002	1003
159	1003	1005
160	1005	1006
161	1001	1004
162	1004	1006
163	1002	1004
164	1002	1005
165	1004	1005
166	1001	1007
167	1007	1010
168	1003	1008
169	1008	1011
170	1006	1009
171	1009	1012
172	101	201
173	103	203
174	106	206
175	201	301
176	203	303
177	206	306

178	301	401
179	303	403
180	306	406
181	401	501
182	403	503
183	406	506
184	501	601
185	503	603
186	506	656
187	601	651
188	603	653
189	651	701
190	653	703
191	656	706
192	701	801
193	703	803
194	706	806
195	801	901
196	803	903
197	806	906
198	901	1001
199	903	1003
200	906	1006
201	401	510
202	403	511

```
203     406     512
204     510     710
205     511     711
206     512     712
207     710     810
208     711     811
209     712     812
210     810     910
211     811     911
212     812     912
213     910     1010
214     911     1011
215     912     1012
216     1010    1110
217     1011    1111
218     1012    1112
MEMBER RELEASES
74 76 78 110 112 114 128 130 132  END MOM Y Z  END FORCE Y Z
146 148 150 167 169 171 END MOM Y Z  END FORCE Y Z
UNIT INCH LBS
MEMBER PROPERTIES PRISMATIC
41 TO 46 50 TO 55  AX 14.70  IX 1.25  IY 802.  IZ 40.2  SY 89.1  SZ 10.7
47 TO 49 56 TO 58  AX 7.06  IX .343  IY 82.5  IZ 18.2  SY 20.8  SZ 5.61
59 TO 64 71 72 79 TO 81 100 101 TO 105 99 -
        AX 19.24  IX 723.28  IY 361.64  IZ 361.64  SY 56.73  SZ 56.73
106 TO 108 -
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        AX 14,58  IX 558,82  IY 279,41  IZ 279,41  SY 43,83  SZ 43,83

124 TO 126 142 TO 144 163 TO 165 =
        AX 16,05  IX 745,72  IY 372,86  IZ 372,86  SY 53,26  SZ 53,26

89 TO 92 =
        AX 12,76  IX 211,48  IY 105,74  IZ 105,74  SY 24,52  SZ 24,52

85 TO 88 93 TO 95 =
        AX 26,27  IX 649,2   IY 324,6   IZ 324,6   SY 60,39  SZ 60,39

65 TO 70 151 TO 156 =
        AX 24,35  IX 1464,2  IY 732,1   IZ 732,1   SY 91,52  SZ 91,52

118 TO 123 136 TO 141 157 TO 162 =
        AX 27,49  IX 2106,88 IY 1053,44 IZ 1053,44 SY 117,05 SZ 117,05

96 TO 98 115 TO 117 133 TO 135 =
        AX 38,04  IX 3574,86 IY 1787,43 IZ 1787,43 SY 178,74 SZ 178,74

172 TO 180 =
        AX 91,11  IX 19182,8 IY 9591,4  IZ 9591,4  SY 639,43 SZ 639,43

201 TO 206 213 TO 215 =
        AX 221,29 IX 89816,8 IY 44908,4 IZ 44908,4  SY 2138,5 SZ 2138,5

207 TO 212 =
        AX 251,33 IX 100808, IY 50404,  IZ 50404,  SY 2400,2 SZ 2400,2

216 TO 218 =
        AX 136,46 IX 41260,8 IY 20630,4 IZ 20630,4 SY 1146,1 SZ 1146,1

181 TO 191 =
        AX 141,37 IX 71604,9 IY 35802,4 IZ 35802,4 SY 1556,6 SZ 1556,6

192 TO 200 =
        AX 71,47  IX 36995,4 IY 18497,7 IZ 18497,7 SY 804,25 SZ 804,25

82 TO 84 =
        AX 27,49  IX 2106,88 IY 1053,44 IZ 1053,44 SY 117,05 SZ 117,05

73 TO 78 109 TO 114 127 TO 132 145 TO 150 166 TO 171 =
        AX 50,0   IX 30000,  IY 30000,  IZ 30000,  SY 3000,  SZ 6000,

CONSTANTS

 E 30000000,  ALL

RAYLEIGH LOADING 'DEAD' 'VIBRATING IN THE Y-DIRECTION'
```

JOINT LOADS

1110	FORCE	Y	5549,719
1010	FORCE	Y	25938,352
1007	FORCE	Y	28,938
910	FORCE	Y	42208,660
1001	FORCE	Y	19549,332
907	FORCE	Y	28,938
810	FORCE	Y	40924,648
1002	FORCE	Y	12644,625
1004	FORCE	Y	10732,500
901	FORCE	Y	43404,410
807	FORCE	Y	28,938
710	FORCE	Y	35021,695
1003	FORCE	Y	19549,332
1005	FORCE	Y	10732,500
903	FORCE	Y	44846,145
1006	FORCE	Y	19079,418
906	FORCE	Y	42372,965
902	FORCE	Y	6164,211
904	FORCE	Y	5604,801
806	FORCE	Y	39565,238
801	FORCE	Y	42554,211
707	FORCE	Y	28,938
510	FORCE	Y	18803,129
1008	FORCE	Y	28,938

908	FORCE	Y	28,938
905	FORCE	Y	5604,801
803	FORCE	Y	39898,813
1009	FORCE	Y	28,890
909	FORCE	Y	28,890
809	FORCE	Y	28,890
805	FORCE	Y	4659,695
804	FORCE	Y	4659,695
706	FORCE	Y	22006,328
701	FORCE	Y	29808,012
802	FORCE	Y	5124,078
703	FORCE	Y	28206,961
507	FORCE	Y	28,938
401	FORCE	Y	9896,918
1011	FORCE	Y	25938,352
911	FORCE	Y	42208,660
808	FORCE	Y	28,938
1012	FORCE	Y	25938,480
912	FORCE	Y	42208,527
812	FORCE	Y	40924,652
709	FORCE	Y	28,890
656	FORCE	Y	15290,152
705	FORCE	Y	2852,114
704	FORCE	Y	2852,114
503	FORCE	Y	11238,180

702	FORCE	Y	2958,397
651	FORCE	Y	12046,922
506	FORCE	Y	17942,203
708	FORCE	Y	28,938
653	FORCE	Y	12046,922
501	FORCE	Y	12202,984
301	FORCE	Y	9725,125
1111	FORCE	Y	5549,719
811	FORCE	Y	40924,648
1112	FORCE	Y	5549,461
712	FORCE	Y	35022,590
515	FORCE	Y	941,528
508	FORCE	Y	28,938
514	FORCE	Y	941,299
403	FORCE	Y	10014,379
603	FORCE	Y	10669,531
502	FORCE	Y	3155,468
505	FORCE	Y	2912,415
513	FORCE	Y	941,299
661	FORCE	Y	1152,264
601	FORCE	Y	10669,531
509	FORCE	Y	28,890
406	FORCE	Y	9896,340
504	FORCE	Y	2912,415
711	FORCE	Y	35021,695

603	FORCE	Y	1152.264
208	FORCE	Y	6454.367
303	FORCE	Y	9725.922
306	FORCE	Y	9724.988
201	FORCE	Y	6454.211
512	FORCE	Y	18803.172
511	FORCE	Y	18864.285
613	FORCE	Y	1159.413
602	FORCE	Y	1308.612
611	FORCE	Y	1159.413
106	FORCE	Y	3055.501
205	FORCE	Y	1075.113
204	FORCE	Y	1075.113
203	FORCE	Y	6454.094
101	FORCE	Y	3055.027
202	FORCE	Y	1075.139
612	FORCE	Y	1233.361
105	FORCE	Y	1075.113
104	FORCE	Y	1075.113
103	FORCE	Y	3055.027
102	FORCE	Y	1075.139

LOADING LIST ALL

STIFFNESS ANALYSIS

TIME FOR CONSISTENCY CHECKS	0.15 SECONDS.
TIME TO GENERATE 178 ELEMENT STIF. MATRICES	1.28 SECONDS.
TIME TO PROCESS MEMBER RELEASES	0.06 SECONDS
TIME TO ASSEMBLE THE STIFFNESS MATRIX	3.37 SECONDS
TIME TO PROCESS 95 JOINTS	1.21 SECONDS.

ASP JOB NO. = 9642 DATE = 76.190

//LEC5655 JOB (0044270500277101PCETENG96),'CHERN ',PRTY=4,CLASS=D,C9642

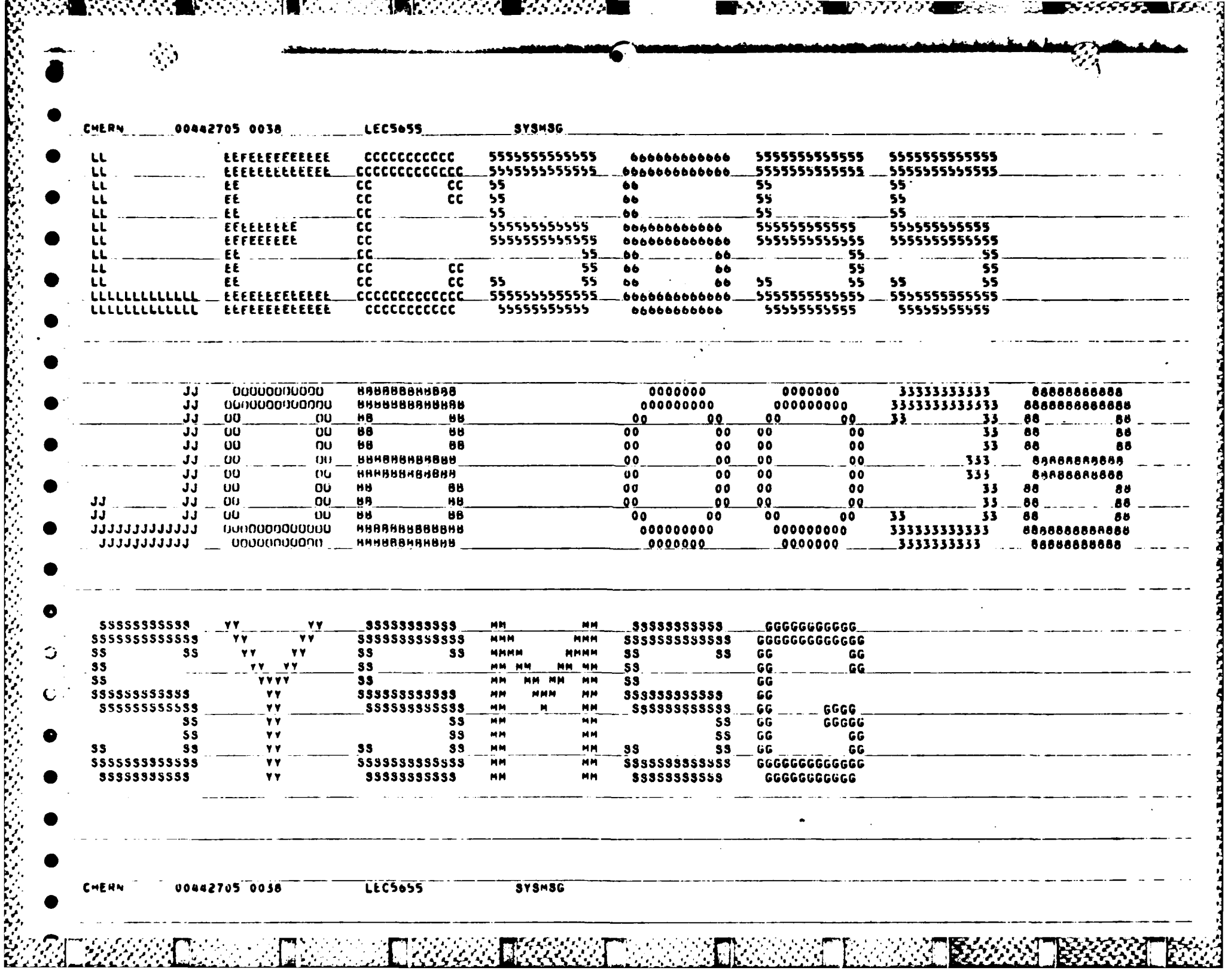
ELAPSED TIME ON MAIN = A = 006.30, START TIME = 15.46.15

DDNAME = SYSMSG PRINTED ON RMU27PR1, LINES = 000124
DDNAME = FT06F001 PRINTED ON RM027PR1, LINES = 000548
LINES OUTPUT FOR THIS JOB = 000672

CARDS FROM MAIN FOR THIS JOB = NONE

APPENDIC C

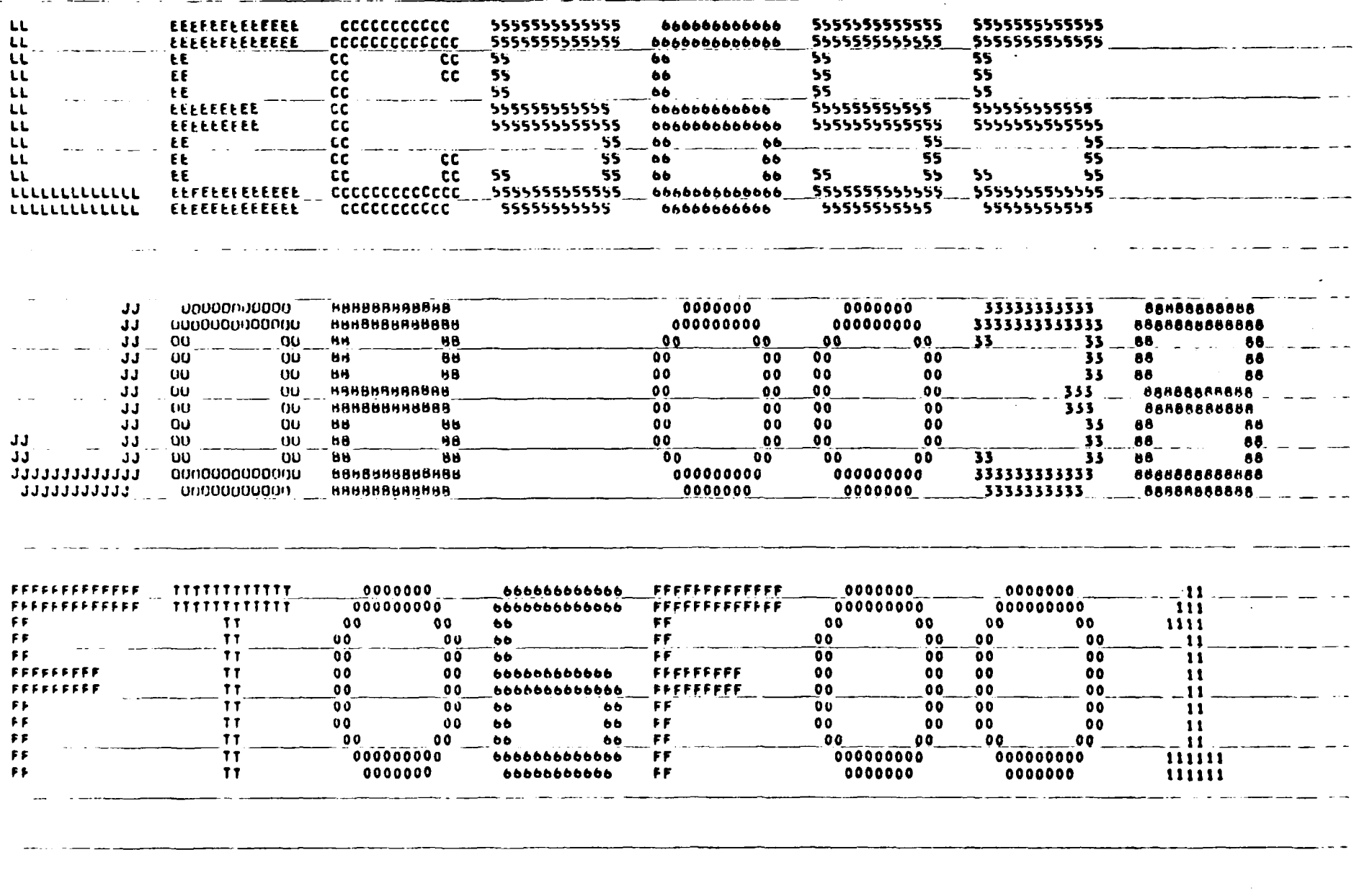
EARTHQUAKE ANALYSIS


CMERN 00442705 0038 LEC5655 SYSMSG
CMERN 00442705 0038 LEC5655 SYSMSG

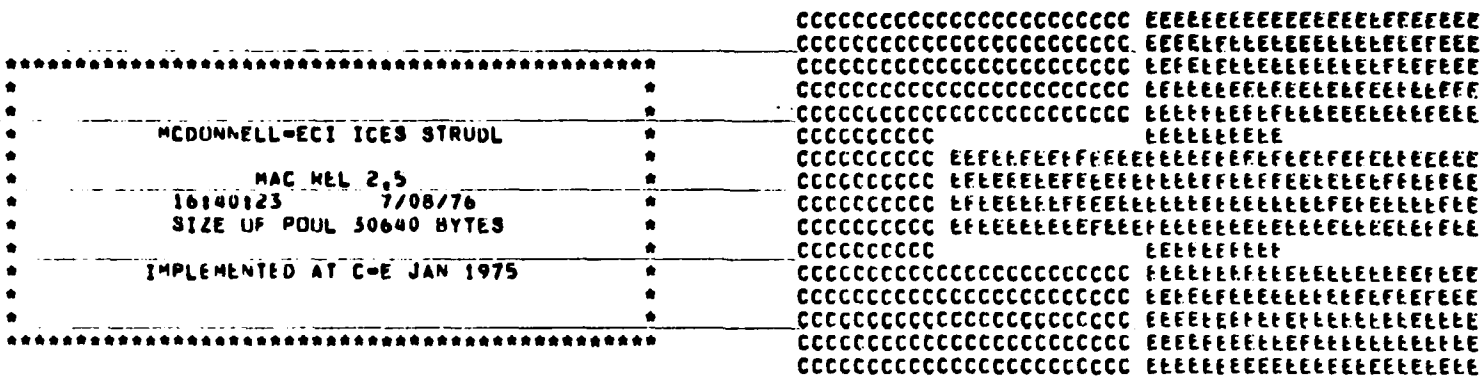
```
 ISV40 JOB ORIGIN FROM GROUP=RM027   , DSP=CR , DEVICE=RM027RD1, 0A3
//LEC5655 JOB (00442705002777101PCETENG96),'CHERN      ',PRTY=4,CLASS=D,C
// TIME=(060,00),REGION=500K
//*MAIN  LINES=(080,H),CARDS=(00,C),SYSTEM=A,FAILURE=RESTART
//RIN15656 EXEC RIN15656
//RIN15656.SYSIN DD *
/*


AMDS01 JOB 0038 (LEC5655 ) IN SETUP ON MAIN=A
AMDS02 STEPLIB  USING 0 ONL001 ON 100
 LEC5655  IEF403I LEC5655  STARTED    TIME=16.38.39
 LEC5655  IEF234E D 683,ASP683
 LEC5655  IEF234E D 686,ASP686
 LEC5655  IEF234E D 6H7,ASP6B7
*LEC5655 *90 IECASP0 683 IS LEC5655  A RIN15656=IN15656FT06F001
*LEC5655 *97 IECASP0 6AC IS LEC5655   RIN15656=IN15656ASPI0001
 LEC5655  IEC202E K 6AC,010038,NL,LEC5655,RIN15656
 LEC5655  TI=LEC5655 CC=00442705 P=2777101 P J=CETENG96 N=CHERN      A=0038
 LEC5655  IEF404I LEC5655  ENDED      TIME=16.53.24
//LEC5655 JOB (00442705002777101PCETENG96),'CHERN      ',PRTY=4,CLASS=D,*
// TIME=(060,00),REGION=500K
//*IN15656 EXEC RIN15656
XX*IN15656 EXEC PGM=QUICEX5,PARM=00000                                  00020000
XXSTEPLIB DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,DSN=MAC.ICESV2P3        00040000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                        00060000
XX DSN=ICES.STRUDL.FIX                                                  00080000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                        00100000
XX DSNAME=MAC.SDOUBANG                                                  00120000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                        00140000
XX DSNAME=MAC.STR2P5                                                    00160000
XX        DD DISP=SHR,UNIT=SYSDA,VOL=SER=ONL001,                        00180000
XX DSNAME=MAC.TABLE2P5                                                  00200000
XXFT05F001 DD DDNAME=SYSIN                                              00220000
XXFT06F001 DD SYSOUT=A,DCB=(RECFM=FB,LRECL=133,BLKSIZE=798)             00240000
XXFT06F002 DD SYSOUT=A                                                  00260000
XXFT07F001 DD SYSOUT=H                                                  00280000
XXFT10F001 DD DUMMY                                                     00300000
XXDD1 DD UNIT=SYSDA,DCB=DSORG=DA,SPACE=(TRK,10)                         00320000
XXDD2 DD DSN=MAC.STR2P5,DD2,DISP=SHR,DCB=DSORG=DA,UNIT=SYSDA,           00340000
XX VOL=SER=ONL001                                                       00360000
XXDD3 DD DSN=DD3,SDOUBANG,DISP=SHR,DCB=DSORG=DA,UNIT=SYSDA,             00380000
XX VOL=SER=ONL001                                                       00400000
XXDD4 DD UNIT=SYSDA,DCB=(DSORG=DA,BLKSIZE=6300),SPACE=(6300,(500,50))   00420000
//RIN15656.SYSIN DD UNIT=(CTC,,DEFER),DSNAME=&&ASPI0001,                *
// DISP=(OLD,DELETE),VOL=SER=U10038,DCB=(LRECL=80,BLKSIZE=80,RECFM=F)
//
IEF236I ALLOC. FOR LEC5655  RIN15656 RIN15656
IEF237I 100   ALLOCATED TO STEPLIB
IEF237I 100   ALLOCATED TO
IEF237I 100   ALLOCATED TO
IEF237I 100   ALLOCATED TO
IEF237I 100   ALLOCATED TO
IEF237I 68C   ALLOCATED TO FT05F001
IEF237I 683   ALLOCATED TO FT06F001
IEF237I 686   ALLOCATED TO FT06F002
IEF237I 6B7   ALLOCATED TO FT07F001
IEF237I 2AB   ALLOCATED TO DD1
```

```
IEF237I 100  ALLOCATED TO DD2
IEF237I 100  ALLOCATED TO DD3
IEF237I 10   ALLOCATED TO DD4
IEF142I - . P WAS EXECUTED - COND CODE 0000
IEF285I   MAC.ICESV2P3                                KEPT
IEF285I   VOL SER NOS= ONL001.
IEF285I   ICES.STRUDL.FIX                             KEPT
IEF285I   VOL SER NOS= ONL001.
IEF285I   MAC.SDDUBANG                                KEPT
IEF285I   VOL SER NOS= ONL001.
IEF285I   MAC.STR2P5                                  KEPT
IEF285I   VOL SER NOS= ONL001.
IEF285I   MAC.TABLE2P5                                KEPT
IEF285I   VOL SER NOS= ONL001.
IEF285I   SYS76190.T163751.RV001.LEC5655.ASPI0001     DELETED
IEF285I   VOL SER NOS= 010038.
IEF285I   SYS76190.T163751.RV001.LEC5655.ASPOA001     DELETED
IEF285I   VOL SER NOS= ASP0H3.
IEF285I   SYS76190.T163751.RV001.LEC5655.R0005641     DELETED
IEF285I   VOL SER NOS= SCH008.
IEF285I   MAC.STR2P5.DD2                              KEPT
IEF285I   VOL SER NOS= ONL001.
IEF285I   DD3.SDDUBANG                                KEPT
IEF285I   VOL SER NOS= ONL001.
IEF285I   SYS76190.T163751.RV001.LEC5655.R0005642     DELETED
IEF285I   VOL SER NOS= SCH002.
IEF373I STEP /*IN15656/ START 76190.1638
IEF374I STEP /*IN15656/ STOP  76190.1653 CPU   1MIN 14.05SEC STOR VIRT 512K
$$$
```



STRUDL 'ACMR' 'EARTHQUAKE ANALYSIS OF TRIPOD STRUCTURES AT 105 FT WATER = NAVY'



DUMP TIME

TYPE SPACE FRAME

UNIT FEET

JOINT COORDINATES

1110	34.21	-19.75	-15.00	$
1010	32.04	-18.50	-0.01	
1007	34.21	-19.75	0.41	
910	27.42	-15.83	31.99	
1001	32.04	-18.50	0.0	
907	29.59	-17.08	32.41	
810	22.79	-13.16	63.99	
1002	0.	-18.50	0.0	
1004	16.02	9.25	0.0	
901	27.42	-15.83	32.00	

807	24,96	-14,41	64,41
710	18,76	-10,83	91,99
1003	-32,04	-18,50	0,0
1005	-16,02	9,25	0,0
903	-27,42	-15,83	32,00
1006	0,	37,00	0,0
906	0,	31,66	32,00
902	0,	-15,83	32,00
904	13,71	7,91	32,00
806	0,	26,32	64,00
801	22,79	-13,16	64,00
707	20,93	-12,08	92,41
510	15,15	-8,75	116,99
1008	-34,21	-19,75	0,41
908	-29,59	-17,08	32,41
905	-13,71	7,91	32,00
803	-22,79	-13,16	64,00
1009	0,	39,50	0,41
909	0,	34,16	32,41
809	0,	28,82	64,41
805	-11,40	6,58	64,00
804	11,40	6,58	64,00
706	0,	21,66	92,0
701	18,76	-10,83	92,0
802	0,	-13,16	64,00

703	-18,76	-10,83	92,0	
507	17,32	-10,00	117,41	
401	14,50	-8,37	121,5	
1011	-32,04	-18,50	-0,01	
911	-27,42	-15,83	31,99	
808	-24,96	-14,41	64,41	
1012	0,	37,00	-0,01	
912	0,	31,66	31,99	
812	0,	24,32	63,99	
709	0,	24,16	92,41	
656	0,	20,49	99,00	
705	-9,38	5,41	92,0	
704	9,38	5,41	92,0	
503	-15,15	-8,75	117,0	
702	0,	-10,83	92,0	
651	17,74	-10,25	99,00	
506	0,	17,49	117,0	
708	-20,93	-12,08	92,41	
653	-17,74	-10,25	99,00	
501	15,15	-8,75	117,0	
301	14,50	-8,37	150,0	
1111	-34,21	-19,75	-15,00	S
811	-22,79	-13,16	63,99	
1112	0,	39,50	-15,00	S
712	0,	21,66	91,99	

515	0,	20,49	117,00
508	-17,32	-10,00	117,41
514	-17,74	-10,25	117,00
403	-14,	-8,37	121,5
603	-16,01	-9,25	111,00
502	0,	-8,75	117,0
505	-7,575	4,37	117,0
513	17,74	-10,25	117,00
661	17,74	-15,25	99,00
601	16,01	-9,25	111,00
509	0,	19,99	117,41
406	0,	16,74	121,5
504	7,575	4,37	117,0
711	-18,76	-10,83	91,99
663	-17,74	-15,25	99,00
206	0,	16,74	165,0
303	-14,50	-8,37	150,0
306	0,	16,74	150,0
201	14,50	-8,37	165,0
512	0,	17,49	116,99
511	-15,15	-8,75	116,99
613	-16,01	-15,25	111,00
662	0,	-15,25	99,00
611	16,01	-15,25	111,00
106	0,	16,74	180,0

205	-7.25	4.18	165.0
204	7.25	4.18	165.0
203	-14.50	-8.37	165.0
101	14.50	-8.37	180.0
202	0.	-8.37	165.0
612	0.	-15.25	111.00
105	-7.25	4.18	180.0
106	7.25	4.18	180.0
103	-14.50	-8.37	180.0
102	0.	-8.37	180.0

JOINT RELEASES

1110 1111 1112 MOM X MOM Y MOM Z

MEMBER INCIDENCES

41	101	102
42	102	103
43	103	105
44	105	106
45	101	104
46	104	106
47	102	104
48	102	105
49	104	105
50	201	202
51	202	203
52	203	205

53	205	206
54	201	204
55	204	206
56	202	204
57	202	205
58	204	205
59	201	303
60	203	306
61	206	301
62	301	303
63	303	306
64	301	306
65	501	502
66	502	503
67	503	505
68	505	506
69	501	504
70	504	506
71	502	504
72	502	505
73	501	507
74	507	510
75	503	508
76	508	511
77	506	509

78	509	512
79	501	513
80	503	514
81	506	515
82	513	651
83	514	653
84	515	656
85	601	611
86	603	613
87	651	661
88	653	663
89	611	612
90	612	613
91	661	662
92	662	663
93	611	661
94	612	662
95	613	663
96	501	703
97	503	706
98	506	701
99	701	702
100	504	505
101	702	703
102	703	705

103	705	706
104	701	704
105	704	706
106	702	704
107	702	705
108	704	705
109	701	707
110	707	710
111	703	708
112	708	711
113	706	709
114	709	712
115	701	806
116	703	801
117	701	803
118	801	802
119	802	803
120	803	805
121	805	806
122	801	804
123	804	806
124	802	804
125	802	805
126	804	805
127	801	807

128	807	810
129	803	808
130	808	811
131	806	809
132	809	812
133	801	903
134	803	906
135	806	901
136	901	902
137	902	903
138	903	905
139	905	906
140	901	904
141	904	906
142	902	904
143	902	905
144	904	905
145	901	907
146	907	910
147	903	908
148	908	911
149	906	909
150	909	912
151	901	1002
152	903	1002

153	903	1005
154	906	1005
155	901	1004
156	906	1004
157	1001	1002
158	1002	1003
159	1003	1005
160	1005	1006
161	1001	1004
162	1004	1006
163	1002	1004
164	1002	1005
165	1004	1005
166	1001	1007
167	1007	1010
168	1003	1008
169	1008	1011
170	1006	1009
171	1009	1012
172	101	201
173	103	203
174	106	206
175	201	301
176	203	303
177	206	306

178	501	401
179	303	403
180	306	406
181	401	501
182	403	503
183	406	506
184	501	601
185	503	603
186	506	656
187	601	651
188	603	653
189	651	701
190	653	703
191	656	706
192	701	801
193	703	803
194	706	806
195	801	901
196	803	903
197	806	906
198	901	1001
199	903	1004
200	906	1006
201	401	510
202	403	511

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203      406      512
204      510      710
205      511      711
206      512      712
207      710      810
208      711      811
209      712      812
210      810      910
211      811      911
212      812      912
213      910      1010
214      911      1011
215      912      1012
216      1010     1110
217      1011     1111
218      1012     1112
MEMBER RELEASES
74 76 78 110 112 114 128 130 132  END MOM Y Z  END FORCE Y Z
146 148 150 167 169 171 END MOM Y Z  END FORCE Y Z
UNIT INCH LBS
MEMBER PROPERTIES PRISMATIC
41 TO 46 50 TO 55  AX 14.70  IX 1.25  IY 802.  IZ 40.2  SY 89.1  SZ 10.7
47 TO 49 56 TO 58  AX  7.06  IX .343  IY 82.5  IZ 18.2  SY 20.8  SZ 5.61
59 TO 64 71 72 79 TO 81 100 101 TO 105 99 -
        AX 19.24  IX 725.28  IY 361.64  IZ 361.64  SY 56.73  SZ 56.73
106 TO 108 -
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```
        AX 14.58  IX 558.82  IY 279.41  IZ 279.41  SY 43.83  SZ 43.83

124 TO 126 142 TO 144 163 TO 165 =
        AX 16.05  IX 745.72  IY 372.86  IZ 372.86  SY 53.26  SZ 53.26

89 TO 92 =
        AX 12.76  IX 211.48  IY 105.74  IZ 105.74  SY 24.52  SZ 24.52

85 TO 88 93 TO 95 =
        AX 26.27  IX 649.2   IY 324.6   IZ 324.6   SY 60.39  SZ 60.39

65 TO 70 151 TO 156 =
        AX 24.35  IX 1464.2  IY 732.1   IZ 732.1   SY 91.52  SZ 91.52

118 TO 123 136 TO 141 157 TO 162 =
        AX 27.49  IX 2106.88 IY 1053.44 IZ 1053.44 SY 117.05 SZ 117.05

96 TO 98 115 TO 117 133 TO 135 =
        AX 58.04  IX 3574.86 IY 1787.43 IZ 1787.43 SY 178.74 SZ 178.74

172 TO 180 =
        AX 91.11  IX 19182.8 IY 9591.4  IZ 9591.4  SY 639.43 SZ 639.43

201 TO 206 213 TO 215 =
        AX 221.29 IX 89816.8 IY 44908.4 IZ 44908.4  SY 2138.5 SZ 2138.5

207 TO 212 =
        AX 251.33 IX 100808. IY 50404.  IZ 50404.  SY 2400.2 SZ 2400.2

216 TO 218 =
        AX 136.46 IX 41260.8 IY 20630.4 IZ 20630.4 SY 1146.1 SZ 1146.1

181 TO 191 =
        AX 141.37 IX 71604.9 IY 35802.4 IZ 35802.4 SY 1556.6 SZ 1556.6

192 TO 200 =
        AX 71.47  IX 36995.4 IY 18497.7 IZ 18497.7 SY 804.25 SZ 804.25

82 TO 84 =
        AX 27.49  IX 2106.88 IY 1053.44 IZ 1053.44 SY 117.05 SZ 117.05

73 TO 78 109 TO 114 127 TO 132 145 TO 150 166 TO 171 =
        AX 50.0   IX 30000.  IY 30000.  IZ 30000.  SY 3000.  SZ 6000.

CONSTANTS

 E 30000000.  ALL

LOADING 1 'EARTHQUAKE LOADS IN Y-DIRECTION'
```

JOINT LOADS

1110	FORCE	Y	0.
1010	FORCE	Y	243.
1007	FORCE	Y	0.
910	FORCE	Y	1247.
1001	FORCE	Y	185.
907	FORCE	Y	0.
810	FORCE	Y	2030.
1002	FORCE	Y	118.
1004	FORCE	Y	102.
901	FORCE	Y	1279.
807	FORCE	Y	0.
710	FORCE	Y	2354.
1003	FORCE	Y	185.
1005	FORCE	Y	102.
903	FORCE	Y	1328.
1006	FORCE	Y	180.
906	FORCE	Y	1247.
902	FORCE	Y	178.
904	FORCE	Y	162.
806	FORCE	Y	1966.
801	FORCE	Y	2094.
707	FORCE	Y	0.
510	FORCE	Y	1563.
1008	FORCE	Y	0.

908	FORCE	Y	0.
905	FORCE	Y	162.
803	FORCE	Y	1979.
1009	FORCE	Y	0.
909	FORCE	Y	0.
809	FORCE	Y	0.
805	FORCE	Y	231.
804	FORCE	Y	231.
706	FORCE	Y	1470.
701	FORCE	Y	2003.
802	FORCE	Y	257.
703	FORCE	Y	1885.
507	FORCE	Y	0.
401	FORCE	Y	847.
1011	FORCE	Y	243.
911	FORCE	Y	1247.
808	FORCE	Y	0.
1012	FORCE	Y	243.
912	FORCE	Y	1247.
812	FORCE	Y	2030.
709	FORCE	Y	0.
656	FORCE	Y	1090.
705	FORCE	Y	195.
704	FORCE	Y	195.
503	FORCE	Y	927.

702	FORCE	Y	195.
651	FORCE	Y	861.
506	FORCE	Y	1480.
708	FORCE	Y	0.
653	FORCE	Y	861.
501	FORCE	Y	1008.
301	FORCE	Y	1005.
1111	FORCE	Y	0.
811	FORCE	Y	2030.
1112	FORCE	Y	0.
712	FORCE	Y	2354.
515	FORCE	Y	82.
508	FORCE	Y	0.
514	FORCE	Y	82.
403	FORCE	Y	858.
603	FORCE	Y	844.
502	FORCE	Y	263.
505	FORCE	Y	236.
513	FORCE	Y	82.
661	FORCE	Y	83.
601	FORCE	Y	844.
509	FORCE	Y	0.
406	FORCE	Y	847.
504	FORCE	Y	236.
711	FORCE	Y	2354.

663 FORCE Y 85.
206 FORCE Y 752.
303 FORCE Y 1009.
306 FORCE Y 1005.
201 FORCE Y 729.
512 FORCE Y 1563.
511 FORCE Y 1565.
613 FORCE Y 90.
662 FORCE Y 92.
611 FORCE Y 90.
106 FORCE Y 374.
205 FORCE Y 120.
204 FORCE Y 120.
203 FORCE Y 729.
101 FORCE Y 374.
202 FORCE Y 120.
612 FORCE Y 99.
105 FORCE Y 130.
104 FORCE Y 130.
103 FORCE Y 374.
102 FORCE Y 133.

LOADING 2 'EARTHQUAKE LOADS IN X-DIRECTION'

JOINT LOADS

1110 FORCE X 0.
1010 FORCE X 244.

```
1007    FORCE  X    0.
910     FORCE  X    1245.
1001    FORCE  X    178.
907     FORCE  X    0.
810     FORCE  X    2026.
1002    FORCE  X    101.
1004    FORCE  X    108.
901     FORCE  X    1277.
807     FORCE  X    0.
710     FORCE  X    2340.
1003    FORCE  X    178.
1005    FORCE  X    108.
903     FORCE  X    1285.
1006    FORCE  X    188.
906     FORCE  X    1293.
902     FORCE  X    137.
904     FORCE  X    178.
806     FORCE  X    2025.
801     FORCE  X    2013.
707     FORCE  X    0.
510     FORCE  X    1557.
1008    FORCE  X    0.
908     FORCE  X    0.
905     FORCE  X    178.
803     FORCE  X    2013.
```

1009	FORCE	X	0.
909	FORCE	X	0.
809	FORCE	X	0.
805	FORCE	X	244.
804	FORCE	X	244.
706	FORCE	X	1508.
701	FORCE	X	2067.
802	FORCE	X	205.
703	FORCE	X	1820.
507	FORCE	X	0.
401	FORCE	X	847.
1011	FORCE	X	244.
911	FORCE	X	1245.
808	FORCE	X	0.
1012	FORCE	X	244.
912	FORCE	X	1245.
812	FORCE	X	2026.
709	FORCE	X	0.
656	FORCE	X	1094.
705	FORCE	X	194.
704	FORCE	X	194.
503	FORCE	X	942.
702	FORCE	X	182.
651	FORCE	X	860.
506	FORCE	X	1540.

708	FORCE	X	0.
653	FORCE	X	860.
501	FORCE	X	951.
301	FORCE	X	1005.
1111	FORCE	X	0.
811	FORCE	X	2026.
1112	FORCE	X	0.
712	FORCE	X	2353.
515	FORCE	X	82.
508	FORCE	X	0.
514	FORCE	X	82.
403	FORCE	X	856.
603	FORCE	X	844.
502	FORCE	X	217.
505	FORCE	X	244.
513	FORCE	X	82.
661	FORCE	X	83.
601	FORCE	X	844.
509	FORCE	X	0.
406	FORCE	X	847.
504	FORCE	X	244.
711	FORCE	X	2340.
663	FORCE	X	83.
206	FORCE	X	727.
303	FORCE	X	1008.

306 FORCE X 1005.

201 FORCE X 726.

512 FORCE X 1557.

511 FORCE X 1557.

613 FORCE X 90.

662 FORCE X 93.

611 FORCE X 90.

106 FORCE X 374.

205 FORCE X 123.

204 FORCE X 123.

203 FORCE X 727.

101 FORCE X 372.

202 FORCE X 123.

612 FORCE X 98.

105 FORCE X 132.

104 FORCE X 132.

103 FORCE X 372.

102 FORCE X 132.

LOADING 3 'GRAVITY AND BUOYANCY'

JOINT LOADS

1110 FORCE Z -3073.498

1010 FORCE Z -13725.039

1007 FORCE Z -24.369

910 FORCE Z -22735.727

1001 FORCE Z -2803.619

907	FORCE	Z	-24,369
410	FORCE	Z	-22008,715
1002	FORCE	Z	1391,355
1004	FORCE	Z	1391,377
911	FORCE	Z	-5710,395
807	FORCE	Z	-24,369
710	FORCE	Z	-18896,408
1003	FORCE	Z	-2803,619
1005	FORCE	Z	1391,377
903	FORCE	Z	-5710,410
1006	FORCE	Z	-2803,645
906	FORCE	Z	-5710,270
902	FORCE	Z	937,205
904	FORCE	Z	937,219
806	FORCE	Z	-5394,973
801	FORCE	Z	-5395,117
707	FORCE	Z	-24,369
510	FORCE	Z	-9823,598
1008	FORCE	Z	-24,369
908	FORCE	Z	-24,369
905	FORCE	Z	937,219
803	FORCE	Z	-5395,113
1009	FORCE	Z	-24,328
909	FORCE	Z	-24,328
809	FORCE	Z	-24,328

805	FORCE	Z	779,183
804	FORCE	Z	779,183
706	FORCE	Z	-4434,809
701	FORCE	Z	-3885,314
802	FORCE	Z	779,093
703	FORCE	Z	-4160,063
507	FORCE	Z	-24,369
401	FORCE	Z	-6880,102
1011	FORCE	Z	-13725,039
911	FORCE	Z	-22735,727
808	FORCE	Z	-24,369
1012	FORCE	Z	-13725,094
912	FORCE	Z	-22735,633
812	FORCE	Z	-22668,711
709	FORCE	Z	-24,328
656	FORCE	Z	-6153,293
705	FORCE	Z	-22,413
704	FORCE	Z	-22,413
503	FORCE	Z	-2023,574
702	FORCE	Z	-22,446
651	FORCE	Z	-5102,770
506	FORCE	Z	-4552,242
708	FORCE	Z	-24,369
653	FORCE	Z	-5102,770
501	FORCE	Z	-2003,133

301	FORCE	Z	-9725.125
1111	FORCE	Z	-3073.498
811	FORCE	Z	-22664.715
1112	FORCE	Z	-3073.355
712	FORCE	Z	-18896.883
515	FORCE	Z	-941.528
508	FORCE	Z	-24.369
514	FORCE	Z	-941.299
403	FORCE	Z	-6933.160
603	FORCE	Z	-4091.552
502	FORCE	Z	-23.174
505	FORCE	Z	-23.177
513	FORCE	Z	-941.299
661	FORCE	Z	-1152.264
501	FORCE	Z	-4091.552
509	FORCE	Z	-24.328
406	FORCE	Z	-6879.840
504	FORCE	Z	-23.177
711	FORCE	Z	-18896.406
663	FORCE	Z	-1152.264
206	FORCE	Z	-6454.367
303	FORCE	Z	-9725.922
306	FORCE	Z	-9724.988
201	FORCE	Z	-6454.211
512	FORCE	Z	-9823.609

511	FORCE	Z	=9855,535
613	FORCE	Z	=1159,413
662	FORCE	Z	=1308,612
611	FORCE	Z	=1159,413
106	FORCE	Z	=3055,301
205	FORCE	Z	=1075,113
204	FORCE	Z	=1075,113
203	FORCE	Z	=6454,094
101	FORCE	Z	=3055,027
202	FORCE	Z	=1075,139
612	FORCE	Z	=1235,581
105	FORCE	Z	=1075,113
104	FORCE	Z	=1075,113
103	FORCE	Z	=3055,027
102	FORCE	Z	=1075,139

LOADING 4 'TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION'

JOINT LOADS

101	FORCE	Y	151,0	FORCE Z	=3021,0
103	FORCE	Y	151,0	FORCE Z	=3021,0
106	FORCE	Y	151,0	FORCE Z	=3021,0
201	FORCE	Y	332,0	FORCE Z	=6632,0
203	FORCE	Y	332,0	FORCE Z	=6632,0
206	FORCE	Y	332,0	FORCE Z	=6632,0

LOADING 5 'TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION'

JOINT LOADS

```
101     FORCE  X    151.0     FORCE  Z   -3021.0
103     FORCE  X    151.0     FORCE  Z   -3021.0
106     FORCE  X    151.0     FORCE  Z   -3021.0
201     FORCE  X    332.0     FORCE  Z   -6632.0
203     FORCE  X    332.0     FORCE  Z   -6632.0
206     FORCE  X    332.0     FORCE  Z   -6632.0

LOADING LIST ALL

STIFFNESS ANALYSIS
TIME FOR CONSISTENCY CHECKS                    0.15 SECONDS.
TIME TO GENERATE  178 ELEMENT STIF. MATRICES   1.29 SECONDS.
TIME TO PROCESS MEMBER RELEASES                0.06 SECONDS
TIME TO ASSEMBLE THE STIFFNESS MATRIX          3.61 SECONDS
TIME TO PROCESS   95 JOINTS                    1.58 SECONDS.
TIME TO SOLVE WITH   32 PARTITIONS            13.43 SECONDS
TIME TO PROCESS    95 JOINT DISPLACEMENTS      0.57 SECONDS.
TIME TO PROCESS  178 MEMBER  DISTORTIONS       5.16 SECONDS.
TIME FOR STATICS CHECK                         0.89 SECONDS.

LOADING COMBINATION 6 'VIBRATION IN Y-DIRECTION (COMBINED LOADS)'

COMBINE 6   1  1.0   3  1.0   4  1.0
TIME TO GENERATE COMBINED RESULTS              0.44 SECONDS.

LOADING COMBINATION 7 'VIBRATION IN X-DIRECTION (COMBINED LOADS)'

COMBINE 7   2  1.0   3  1.0   5  1.0
TIME TO GENERATE COMBINED RESULTS              0.44 SECONDS.

OUTPUT DECIMAL 3

LIST FORCES REACTIONS DISPLACEMENTS ALL
```

****
RESULTS OF LATEST ANALYSES
****

PROBLEM = ACMR TITLE = EARTHQUAKE ANALYSIS OF TRIPOD STRUCTURES AT 105 FT WATER = NAVY

ACTIVE UNITS INCH LB RAD FAHR SEC LBM

LOADING = 1 EARTHQUAKE LOADS IN Y-DIRECTION

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
41	101	-222.617	-7.026	-7.990	2.818	772.543	-895.651
41	102	222.617	7.026	7.990	-2.818	617.746	-326.933
42	102	-217.516	0.588	-4.874	-4.220	-714.827	128.382
42	103	217.516	-0.588	4.874	4.220	1562.914	-26.062
43	103	-164.566	0.854	-98.493	-0.967	17677.543	121.880
43	105	164.566	-0.854	98.493	0.967	-547.222	26.665
44	105	55.795	1.815	-96.037	2.390	766.089	101.904
44	106	-55.795	-1.815	96.037	-2.390	15947.051	213.929
45	101	167.554	-6.650	93.497	1.982	-14749.793	-867.153
45	104	-167.554	6.650	-93.497	-1.982	-1511.586	-289.459
46	104	387.775	0.008	92.837	-1.721	1176.206	90.657
46	106	-387.775	-0.008	-92.837	1.721	-17332.418	-89.350
47	102	75.719	-1.214	1.335	-0.334	100.753	-103.592
47	104	-75.719	1.214	-1.335	0.334	-332.637	-107.543
48	102	69.245	0.938	-1.783	0.470	93.090	94.958
48	105	-69.245	-0.938	1.783	-0.470	216.989	68.112
49	104	-143.206	0.872	-0.673	-0.155	337.425	91.239
49	105	143.206	-0.872	0.673	0.155	-220.296	60.456
50	201	-1327.903	-4.518	0.429	1.898	252.390	-641.762
50	202	1327.903	4.518	-0.429	-1.898	-327.004	-144.363
51	202	-1328.849	0.463	2.884	-2.091	302.416	73.131
51	203	1328.849	-0.463	-2.884	2.091	-804.201	7.510
52	203	-2116.780	-0.525	-51.541	-1.198	9202.352	68.257

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
52	205	2118,780	0,325	51,541	1,198	-238,154	-124,868
53	205	-1912,124	5,580	-50,058	0,949	434,967	379,724
53	206	1912,124	-5,580	50,058	-0,949	8276,449	591,285
54	201	3309,965	-3,359	54,816	1,254	-9402,418	-605,690
54	204	-3309,965	3,359	-54,816	-1,254	-151,430	21,449
55	204	3510,066	-4,200	53,845	-0,586	-105,541	-258,662
55	206	-3510,066	4,200	-53,845	0,586	-9264,895	-472,267
56	202	64,119	-0,635	1,202	-0,297	26,670	-25,868
56	204	-64,119	0,635	-1,202	0,297	-235,703	-84,507
57	202	68,586	0,853	-1,253	0,330	22,426	45,363
57	205	-68,586	-0,853	1,253	-0,330	195,524	103,076
58	204	-132,399	1,750	-0,230	-0,048	257,746	152,706
58	205	132,399	-1,750	0,230	0,048	-197,699	151,780
59	201	-126,713	-19,424	-1,701	-2208,622	385,040	-3324,898
59	303	126,713	19,424	1,701	2208,622	281,389	-4285,492
60	203	7132,422	-26,129	-39,820	959,156	6466,973	-3432,092
60	306	-7132,422	26,129	39,820	-959,156	9132,461	-6803,863
61	206	-7220,352	-14,895	47,290	1468,375	-7485,668	-1695,273
61	301	7220,352	14,895	-47,290	-1468,375	-11040,156	-4139,891
62	301	1510,164	-19,426	-4,127	-130,805	884,667	-4497,922
62	303	-1510,164	19,426	4,127	130,805	551,572	-2262,312
63	303	-4341,613	11,599	-112,741	76,768	19870,105	1910,475
63	306	4341,613	-11,599	112,741	-76,768	19358,219	2125,339
64	301	3044,728	-35,521	111,247	265,668	-19174,156	-7190,379
64	306	-3044,728	35,521	-111,247	-265,668	-19534,328	-5169,309
65	501	-6070,543	-105,976	34,897	5381,309	-3735,964	-17185,340
65	502	6070,543	105,976	-34,897	-5381,309	-2610,582	-2081,155
66	502	-6165,383	-30,385	-22,550	-5536,227	2693,044	-232,714
66	503	6165,383	30,385	22,550	5536,227	1406,610	-5291,281
67	503	-9379,652	38,322	-166,116	-3812,087	29214,555	8859,723
67	505	9379,652	-38,322	166,116	3812,087	984,755	-1892,933
68	505	-8851,285	194,047	-196,853	1018,396	3879,967	12914,289
68	506	8851,285	-194,047	196,853	-1018,396	31907,313	22362,883
69	501	10965,414	-61,455	142,522	2049,263	-26905,262	-15439,609
69	504	-10965,414	61,455	-142,522	-2049,263	1031,503	4267,273
70	504	11184,758	-193,774	169,033	-3396,983	-4262,902	-13435,242
70	506	-11184,758	193,774	-169,033	3396,983	-26466,691	-21792,285
71	502	-36,229	-20,970	-51,212	-2752,988	4643,957	-769,427
71	504	36,229	20,970	51,212	2752,988	1030,242	-5042,931
72	502	245,996	52,462	26,236	2741,887	-4790,055	1544,441
72	505	-245,996	-52,462	-26,236	-2741,887	20,428	4357,141
73	501	1151,035	0,415	4,459	-95867,063	-170,328	-358,709
73	507	-1151,035	-0,415	-4,459	95867,063	54,559	371,344
74	507	-1151,044	0,0	0,0	95867,813	0,0	0,0

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
74	510	1151.044	0.0	0.0	-95867.813	0.0	0.0
75	503	5393.540	1.944	-20.891	15948.367	641.916	-2.572
75	508	-5393.540	-1.944	20.891	-15948.367	-5.749	61.777
76	508	-5393.383	0.0	0.0	-15948.488	0.0	0.0
76	511	5393.383	0.0	0.0	15948.488	0.0	0.0
77	506	-5810.637	22.641	0.000	-43313.254	168.773	688.317
77	509	5810.637	-22.641	-0.000	43313.254	-168.773	-0.000
78	509	5810.680	0.0	0.0	43313.582	0.0	0.0
78	512	-5810.680	0.0	0.0	-43313.582	0.0	0.0
79	501	250.069	-77.841	-2383.724	-297.564	55697.648	-3158.281
79	513	-250.069	77.841	2383.724	297.564	29916.191	362.545
80	503	241.389	-120.957	1838.673	1146.774	-42583.313	-1856.252
80	514	-241.389	120.957	-1838.673	-1146.774	-23454.465	-2488.033
81	506	-515.816	42.542	4454.348	561.270	-103682.875	-242.916
81	515	515.816	-42.542	-4454.348	-561.270	-56673.633	1774.414
82	513	2383.724	-110.687	177.386	362.545	-25738.828	-15250.570
82	651	-2383.724	110.687	-177.386	-362.545	-12576.480	-8657.727
83	514	1838.673	-143.647	-148.266	2488.033	19721.578	-12747.016
83	653	-1838.673	143.647	148.266	-2488.033	12305.875	-18280.656
84	515	-4454.348	-433.816	-42.542	1774.414	561.270	-56673.633
84	656	4454.348	433.816	42.542	-1774.414	8627.719	-37030.719
85	601	172.384	124.943	-134.036	-325.776	5942.941	13658.653
85	611	-172.384	-124.943	134.036	325.776	3707.640	-4662.746
86	603	161.489	-159.832	-231.943	182.814	12046.261	-15726.027
86	613	-161.489	159.832	231.943	-182.814	4653.540	2218.141
87	651	108.466	145.652	129.216	-610.319	-7402.816	14415.230
87	661	-108.466	-145.652	-129.216	610.319	-350.170	-5676.137
88	653	94.662	-110.765	236.762	-186.276	-14096.528	-9734.688
88	663	-94.662	110.763	-236.762	186.276	-109.595	3088.934
89	611	-115.833	-59.238	2.999	157.142	-298.630	-5611.086
89	612	115.833	59.238	-2.999	-157.142	-277.520	-5769.750
90	612	-122.498	42.844	2.952	-395.656	-255.944	5494.773
90	613	122.498	-42.844	-2.952	395.656	-311.248	2736.483
91	661	-154.762	-48.611	1.820	-132.664	-175.734	-5208.305
91	662	154.762	48.611	-1.820	132.664	-213.814	-5140.098
92	662	-148.096	40.306	1.867	-23.757	-212.595	5415.074
92	663	148.096	-40.306	-1.867	23.757	-184.879	3165.247
93	611	130.996	-25.146	-9.681	432.009	624.406	-3649.486
93	661	-130.996	25.146	9.681	-432.009	784.053	282.036
94	612	0.047	-3.083	-6.666	274.976	533.465	-552.798
94	662	-0.047	3.083	6.666	-274.976	426.409	108.907
95	613	237.818	-28.644	-3.434	94.551	128.435	-4288.324
95	663	-237.818	28.644	3.434	-94.551	371.155	120.900
96	501	-387.425	-124.381	10.651	-5970.141	-8104.242	-26830.641

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
96	703	387,423	124,381	-10,651	5970,141	-1287,063	-36127,227
97	505	28276,074	-95,130	-178,866	-2912,787	36082,707	-22327,781
97	706	-28276,074	95,130	178,866	2912,787	54455,605	-25824,891
98	506	-19356,113	-8,151	128,958	2602,000	-27158,719	-4733,230
98	701	19356,113	8,151	-128,958	-2602,000	-38131,313	607,653
99	701	-2466,517	-62,032	6,676	989,686	-309,550	-9507,516
99	702	2466,517	62,032	-6,676	-989,686	-1193,276	-4457,086
100	504	-224,312	70,348	4,501	409,013	3433,016	6125,035
100	505	224,312	-70,348	-4,501	-409,013	-4251,383	6664,215
101	702	-2456,747	7,131	-10,505	-4165,418	562,319	2314,130
101	703	2456,747	-7,131	10,505	4165,418	1802,460	-708,750
102	703	-9227,527	18,053	-91,019	-2199,456	18504,422	3746,654
102	705	9227,527	-18,053	91,019	2199,456	1979,486	316,113
103	705	-8896,270	36,232	-94,912	-1200,822	2612,512	2856,511
103	706	8896,270	-36,232	94,912	1200,822	18757,445	5301,505
104	701	-993,166	-36,614	20,770	330,956	-5461,102	-7251,086
104	704	993,166	36,614	-20,770	-330,956	786,900	-988,993
105	704	-730,605	-48,987	34,056	-3610,765	-1133,956	-3890,887
105	706	730,605	48,987	-34,056	3610,765	-6534,027	-7138,691
106	702	63,128	-15,747	-18,178	-1398,815	2529,744	-1304,495
106	704	-63,128	15,747	18,178	1398,815	1561,290	-2239,451
107	702	86,176	8,848	-0,998	1632,421	-1672,668	838,463
107	705	-86,176	-8,848	0,998	-1632,421	1897,261	1152,712
108	704	-187,419	20,702	4,891	1017,613	1594,902	2640,429
108	705	187,419	-20,702	-4,891	-1017,613	-2696,042	2019,912
109	701	648,883	0,234	2,513	-83359,813	-106,588	-315,773
109	707	-648,883	-0,234	-2,513	83359,813	30,050	322,896
110	707	-648,888	0,0	0,0	83360,438	0,0	0,0
110	710	648,888	0,0	0,0	-83360,438	0,0	0,0
111	703	-5545,336	-1,999	21,480	192902,375	-584,556	-808,085
111	708	5545,336	1,999	-21,480	-192902,375	-69,538	747,212
112	708	5545,379	0,0	0,0	-192903,813	0,0	0,0
112	711	-5545,379	0,0	0,0	192903,813	0,0	0,0
113	706	6180,832	-24,084	0,000	105388,938	-402,861	-732,170
113	709	-6180,832	24,084	-0,000	-105388,938	402,861	-0,000
114	709	-6180,879	0,0	0,0	-105389,688	0,0	0,0
114	712	6180,879	0,0	0,0	105389,688	0,0	0,0
115	701	20347,867	-24,860	48,652	-7813,871	-17812,270	4276,203
115	806	-20347,867	24,860	-48,652	7813,871	-11472,688	-19239,742
116	703	2739,671	26,041	-26,342	1586,809	7831,742	2188,896
116	801	-2739,671	-26,041	28,342	-1586,809	9227,219	13485,063
117	701	869,562	24,433	10,550	-8807,352	-4775,449	20964,215
117	803	-869,562	-24,433	-10,550	8807,352	-1574,448	-6258,031
118	801	-3037,527	53,484	25,990	375,185	-2457,985	12841,184

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
118	802	3037.527	-53.484	-25.990	-375.185	-4669.637	1785.630
119	802	-3155.631	65.861	-27.703	-11779.031	2712.778	5036.109
119	803	3133.631	-65.861	27.703	11779.031	4863.445	12975.426
120	803	-11313.559	-48.913	-211.189	-6406.992	55118.004	-8980.965
120	805	11313.559	48.913	211.189	6406.992	2658.694	-4396.082
121	805	-10881.480	-26.602	-222.721	-3446.701	4110.934	1321.309
121	806	10881.480	26.602	222.721	3446.701	56812.938	-8598.102
122	801	2685.333	90.607	44.164	-572.550	-14181.398	16327.082
122	804	-2685.333	-90.607	-44.164	572.550	2103.230	8452.352
123	804	3104.271	0.867	86.325	-10115.188	-1919.934	-4927.965
123	806	-3104.271	-0.867	-86.325	10115.188	-21693.688	5165.078
124	802	80.267	22.018	-43.992	-2304.528	6897.461	3574.222
124	804	-80.267	-22.018	43.992	2304.528	5136.406	2448.681
125	802	200.710	-19.405	9.700	2950.522	-4103.137	-3247.512
125	805	-200.710	19.405	-9.700	-2950.522	1449.712	-2060.516
126	804	-310.201	-7.639	1.832	1636.158	3608.152	-1075.703
126	805	310.201	7.639	-1.832	-1636.158	-4109.320	-1014.260
127	801	-259.320	-0.093	-1.004	160785.750	88.548	619.960
127	807	259.320	0.093	1.004	-160785.750	-57.961	-622.807
128	807	259.322	0.0	0.0	-160787.000	0.0	0.0
128	810	-259.322	0.0	0.0	160787.000	0.0	0.0
129	805	4574.066	1.649	-17.718	104877.500	577.356	-356.035
129	808	-4574.066	-1.649	17.718	-104877.500	-37.807	406.245
130	808	-4574.102	0.0	0.0	-104878.313	0.0	0.0
130	811	4574.102	0.0	0.0	104878.313	0.0	0.0
131	806	-4686.930	18.263	0.000	212753.375	-829.006	555.205
131	809	4686.930	-18.263	-0.000	-212753.375	829.006	-0.000
132	809	4686.965	0.0	0.0	-212755.000	0.0	0.0
132	812	-4686.965	0.0	0.0	212755.000	0.0	0.0
133	801	-554.880	36.729	12.372	-1826.667	-3211.253	17944.957
133	903	554.880	-36.729	-12.372	1826.667	-5637.020	8323.938
134	803	25650.891	-105.273	-49.889	-2264.238	20161.645	-42280.652
134	906	-25650.891	105.273	49.889	2264.238	15519.129	-33011.059
135	806	-20727.191	-86.428	7.751	-2804.929	2908.833	-32976.934
135	901	20727.191	86.428	-7.751	2804.929	-8452.934	-28839.098
136	901	1592.129	33.881	8.962	3033.016	-381.071	9413.789
136	902	-1592.129	-33.881	-8.962	-3033.016	-2567.942	1734.254
137	902	1326.074	36.048	-9.531	-2743.165	2725.250	3456.077
137	903	-1326.074	-36.048	9.531	2743.165	410.688	8405.055
138	903	-10226.477	-40.761	-52.182	-2481.720	16808.207	-7658.169
138	905	10226.477	40.761	52.182	2481.720	358.409	-5751.082
139	905	-9925.359	1.538	-61.578	250.281	1904.558	3898.482
139	906	9925.359	-1.538	61.578	-250.281	18359.270	-3392.405
140	901	6757.621	46.056	46.735	1876.751	-16060.680	9679.824

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
140	904	-6757.621	-46.056	-46.735	-1876.731	686.276	5471.496
141	904	7037.918	-3.022	55.832	-1288.902	-2414.969	-3927.865
141	906	-7037.918	3.022	-55.832	1288.902	-15958.117	2933.301
142	902	56.875	12.027	-9.621	-1452.818	2427.126	2592.809
142	904	-56.875	-12.027	9.621	1452.818	737.949	1363.659
143	902	146.457	-12.518	8.872	1376.329	-2609.233	-2597.520
143	905	-146.457	12.518	-8.872	-1376.329	-309.410	-1520.496
144	904	-199.601	-1.556	0.523	173.233	1978.455	-179.994
144	905	199.601	1.556	-0.523	-173.233	-2150.671	-332.108
145	901	6821.434	2.459	26.423	535014.938	-611.753	2147.276
145	907	-6821.434	-2.459	-26.423	-535014.938	-192.863	-2072.396
146	907	-6821.484	0.0	0.0	-535018.938	0.0	0.0
146	910	6821.484	0.0	0.0	535018.938	0.0	0.0
147	903	5874.805	2.118	-22.756	-599351.563	476.902	2386.094
147	908	-5874.805	-2.118	22.756	599351.563	216.055	-2321.606
148	908	-5874.852	0.0	0.0	599356.125	0.0	0.0
148	911	5874.852	0.0	0.0	-599356.125	0.0	0.0
149	906	-12844.078	50.048	0.000	-89251.000	347.772	1521.486
149	909	12844.078	-50.048	-0.000	89251.000	-347.772	-0.000
150	909	12844.176	0.0	0.0	89251.688	0.0	0.0
150	912	-12844.176	0.0	0.0	-89251.688	0.0	0.0
151	901	77.378	8.359	-8.932	1065.294	2812.777	2344.337
151	1002	-77.378	-8.359	8.932	-1065.294	1713.242	1891.271
152	903	144.055	-11.972	6.502	84.866	-2192.833	-3821.085
152	1002	-144.055	11.972	-6.502	-84.866	-1101.553	-2245.421
153	903	20788.730	-6.132	9.243	-323.473	-1339.706	-4772.172
153	1005	-20788.730	6.132	-9.243	323.473	-3343.552	1664.889
154	906	-20949.455	26.803	2.773	986.388	2025.862	5002.980
154	1005	20949.453	-26.803	-2.773	-986.388	-3428.854	8577.559
155	901	20782.773	9.505	-15.001	866.152	1295.903	71.423
155	1004	-20782.773	-9.505	15.001	-866.152	6307.117	4744.617
156	906	-20851.461	7.272	-6.901	1118.543	1091.238	-1039.406
156	1004	20851.461	-7.272	6.901	-1118.543	2405.258	4724.156
157	1001	-6215.129	4.208	-49.245	6769.828	11608.958	5709.165
157	1002	6215.129	-4.208	49.245	-6769.828	7324.148	-2091.394
158	1002	-6244.289	9.443	51.549	-5494.387	-7009.777	2064.521
158	1003	6244.289	-9.443	-51.549	5494.387	-12809.703	1566.145
159	1003	-10675.211	10.685	-119.261	-5403.453	33065.223	2974.064
159	1005	10675.211	-10.685	119.261	5403.453	12791.352	1134.257
160	1005	16593.840	-0.602	-49.170	686.807	-86.396	1508.438
160	1006	-16593.840	0.602	49.170	-686.807	18992.449	-1740.036
161	1001	-10350.281	26.830	99.511	4181.520	-30871.516	8543.551
161	1004	10350.281	-26.830	-99.511	-4181.520	-7391.258	1772.916
162	1004	16887.574	45.263	61.968	-1995.317	-4437.793	5537.227

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
162	1006	-16887,574	-43,263	-61,968	1995,317	-19389,449	11097,637
163	1002	72,372	7,922	-25,505	-1466,092	5610,605	1351,219
163	1004	-72,372	-7,922	25,505	1466,092	4196,223	1694,717
164	1002	33,632	-1,217	31,296	1268,146	-7262,968	-471,280
164	1005	-33,632	1,217	-31,296	-1268,146	-4770,547	3,525
165	1004	-94,257	-4,121	6,655	274,512	704,102	-1201,334
165	1005	94,257	4,121	-6,655	-274,512	-5262,825	-382,977
166	1001	-14544,301	-5,238	-56,282	581448,375	1923,291	2090,535
166	1007	14544,301	5,238	56,282	-581448,375	-209,410	-2250,045
167	1007	14544,410	0,0	0,0	-581452,750	0,0	0,0
167	1010	-14544,410	0,0	0,0	581452,750	0,0	0,0
168	1003	-14737,484	-5,308	57,030	-603089,625	-1953,850	2172,162
168	1008	14737,484	5,308	-57,030	603089,625	217,204	-2333,790
169	1008	14737,594	0,0	0,0	603094,125	0,0	0,0
169	1011	-14737,594	0,0	0,0	-603094,125	0,0	0,0
170	1006	29256,750	-113,889	-0,000	4145,945	-16,131	-3462,310
170	1009	-29256,750	113,889	0,000	-4145,945	16,131	-0,000
171	1009	-29256,949	0,0	0,0	-4145,977	0,0	0,0
171	1012	29256,949	0,0	0,0	4145,977	0,0	0,0
172	101	-85,507	239,268	-153,045	1762,784	6603,885	12775,629
172	201	85,507	-239,268	153,045	-1762,784	17344,211	30292,594
173	103	-103,368	516,658	300,574	147,942	-10404,742	15311,660
173	203	103,368	-516,658	-300,574	-147,942	-43698,621	77686,750
174	106	188,675	759,074	-167,529	303,278	693,154	28824,426
174	206	-188,675	-759,074	167,529	-303,278	29462,109	107808,875
175	201	-81,027	-1872,202	85,905	6978,164	-13279,449	-22582,730
175	301	81,027	1872,202	-85,905	-6978,164	-2183,598	-314413,625
176	203	-3471,316	-2388,345	-464,267	958,947	35030,148	-64217,051
176	303	3471,316	2388,345	464,267	-958,947	48557,973	-365684,625
177	206	3651,450	-2668,592	294,274	3655,600	-23054,469	-86047,625
177	306	-3651,450	2668,592	-294,274	-3655,600	-29914,922	-392262,938
178	301	-3546,819	2077,587	-31,535	22569,234	16582,973	340550,813
178	401	3546,819	-2077,587	31,535	-22569,234	-5798,004	369915,438
179	303	-3641,762	2335,778	382,436	14709,211	-59373,836	386716,000
179	403	3641,762	-2335,778	-382,436	-14709,211	-71459,375	412242,750
180	306	7194,727	2670,834	-286,962	11710,523	25201,153	436048,813
180	406	-7194,727	-2670,834	286,962	-11710,523	72959,750	477376,625
181	401	50356,262	6279,828	2159,294	-30953,176	-130032,875	135197,000
181	501	-50356,262	-6279,828	-2159,294	30953,176	11810,152	208627,625
182	403	50280,555	5672,746	1957,864	89748,125	-83672,188	18436,039
182	503	-50280,555	-5672,746	-1957,864	-89748,125	-25814,836	298793,500
183	406	-100525,063	2737,858	-248,702	-677,756	50316,270	-88252,375
183	506	100525,063	-2737,858	248,702	677,756	-36701,113	238136,063
184	501	48573,793	-1454,694	521,105	27300,824	-83434,125	-120133,375

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
184	601	-48573,793	1434,694	-521,105	-27300,824	45402,391	15425,281
185	503	32292,551	-4243,586	-506,225	78552,000	34086,820	-243148,500
185	603	-32292,551	4243,586	506,225	-78552,000	2858,925	-66560,688
186	506	-85854,750	-2996,642	-2049,881	55349,555	87412,125	-274804,250
186	656	85854,750	2996,642	2049,881	-55349,555	361469,688	-381398,563
187	601	48340,656	-434,554	377,120	39942,582	-44686,797	-23275,547
187	651	-48340,656	434,554	-377,120	-39942,582	-10566,277	-40161,898
188	603	31958,738	-3262,525	-355,121	66656,188	-3657,417	52742,844
188	653	-31958,738	3262,525	355,121	-66656,188	55498,949	-529015,313
189	651	50753,699	601,471	-26,841	55912,941	23662,191	55862,051
189	701	-50753,699	-601,471	26,841	-55912,941	-21376,105	-2633,550
190	653	33943,563	-2300,453	-45,069	55050,305	-69012,750	560102,313
190	703	-33943,563	2300,453	45,069	-55050,305	72851,375	-756036,375
191	656	-90140,688	-1571,604	-2092,423	55510,773	-370297,375	418429,313
191	706	90140,688	1571,604	2092,423	-55510,773	548499,063	-552275,313
192	701	27072,891	-108,788	-272,041	69655,125	32976,664	76267,813
192	801	-27072,891	108,788	272,041	-69655,125	59683,836	-113322,375
193	703	30539,949	4595,789	-90,026	81932,188	9860,363	971904,313
193	803	-30539,949	-4595,789	90,026	-81932,188	20803,465	593476,688
194	706	-71115,188	2650,634	3789,809	78305,125	-706359,813	616038,250
194	806	71115,188	-2650,634	-3789,809	-78305,125	-584530,750	246824,938
195	801	28777,223	-574,882	-131,058	37770,352	20959,992	-27492,883
195	901	-28777,223	574,882	131,058	-37770,352	30065,313	-196319,625
196	803	17979,203	-1568,279	195,863	36512,512	-9793,656	-390286,938
196	903	-17979,203	1568,279	-195,863	-36512,512	-66459,438	-220275,813
197	806	-49253,793	-665,205	-1191,304	38119,996	346667,938	-166321,688
197	906	49253,793	665,205	1191,304	-38119,996	117118,250	-92649,188
198	901	2440,032	-1776,618	-1356,767	6488,859	242815,125	-222229,813
198	1001	-2440,032	1776,618	1356,767	-6488,859	285378,938	-469411,250
199	903	2507,663	-1979,770	1351,415	4500,066	-230318,563	-282162,813
199	1003	-2507,663	1979,770	-1351,415	-4500,066	-295790,000	-488565,563
200	906	-4947,555	475,715	108,866	12811,898	-39429,813	154081,313
200	1006	4947,555	-475,715	-108,866	-12811,898	-2952,890	31119,125
201	401	-54102,657	-3648,541	-1700,478	212,455	133279,813	-504535,875
201	510	54102,657	3648,541	1700,478	-212,455	-39976,152	304343,688
202	405	-54143,953	-2775,177	-2523,645	27071,238	164901,063	-412121,000
202	511	54143,953	2775,177	2523,645	-27071,238	-23481,922	256606,563
203	406	108200,375	-411,749	-38,260	282,425	-124188,688	-389124,188
203	512	-108200,375	411,749	38,260	-282,425	126287,750	366534,250
204	510	-54236,320	-2603,088	-685,035	270,245	87330,000	-387696,563
204	710	54236,320	2603,088	685,035	-270,245	121014,813	-403999,875
205	511	-54237,945	-3916,493	-1451,293	-247,609	13374,871	-272089,750
205	711	54237,945	3916,493	1451,293	247,609	428017,750	-919062,313
206	512	108464,063	-4733,637	-38,260	270,971	-169601,438	-366533,625

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
206	712	-108464.063	4733.637	38.260	-270.971	181237.875	-1073176.000
207	710	-54430.098	-578.652	-145.957	204.429	-79845.438	351519.375
207	810	54430.098	578.652	145.957	-204.429	129560.063	-528615.250
208	711	-54423.918	1168.172	3395.156	-88.755	-523287.938	751362.250
208	811	54423.918	-1168.172	-3395.156	88.755	-633142.438	-353468.938
209	712	108842.875	3808.370	-38.260	178.949	-77848.125	1073176.000
209	812	-108842.875	-3808.370	38.260	-178.949	90880.188	224036.750
210	810	-54596.961	1561.096	-331.023	516.754	-208956.750	668420.625
210	910	54596.961	-1561.096	331.023	-516.754	337830.438	-60656.039
211	811	-54596.773	920.005	-622.139	-554.059	581310.625	262319.688
211	911	54596.773	-920.005	622.139	554.059	-339100.000	95855.688
212	812	109183.750	1076.536	-38.260	-91.941	121874.563	-224036.875
212	912	-109183.750	-1076.536	38.260	91.941	-106979.688	643143.063
213	910	-54705.832	-566.276	5583.289	2.176	-602141.125	525820.125
213	1010	54705.832	566.276	-5583.289	-2.176	-1571443.000	-746272.563
214	911	-54705.055	-739.757	-5713.387	-27.461	635190.500	425246.313
214	1011	54705.055	739.757	5713.387	27.461	1589041.000	-713227.188
215	912	109402.938	-10537.789	-38.260	5.197	17728.059	-643140.938
215	1012	-109402.938	10537.789	38.260	-5.197	-2853.222	-3459321.000
216	1010	-54714.539	6865.820	-7041.785	-0.000	1284231.000	1251775.000
216	1110	54714.539	-6865.820	7041.785	0.000	-0.000	-0.000
217	1011	-54713.598	6785.797	7079.652	0.000	-1291137.000	1237545.000
217	1111	54713.598	-6785.797	-7079.652	-0.000	0.000	0.000
218	1012	109409.125	18969.270	-38.260	-0.000	6977.195	3459321.000
218	1112	-109409.125	-18969.270	38.260	0.000	0.000	-0.000

RESULTANT JOINT LOADS = SUPPORTS

JOINT		FORCE			MOMENT		
		X FORCE	Y FORCE	Z FORCE	X MOMENT	Y MOMENT	Z MOMENT
1110	GLOBAL	14700.648	-11340.781	-52399.016	-0.000	-0.000	-0.000
1111	GLOBAL	-14738.910	-11262.945	-52399.016	0.000	0.000	-0.000
1112	GLOBAL	38.260	-36709.266	104798.000	-0.000	0.000	0.000
		-0.002	-59312.992	- 0.032			

RESULTANT JOINT DISPLACEMENTS = SUPPORTS

JOINT		DISPLACEMENT X DISP	DISPLACEMENT Y DISP	DISPLACEMENT Z DISP	ROTATION X ROT	ROTATION Y ROT	ROTATION Z ROT
1110	GLOBAL	0.0	0.0	0.0	-0.001	-0.000	-0.000
1111	GLOBAL	0.0	0.0	0.0	-0.001	0.000	-0.000
1112	GLOBAL	0.0	0.0	0.0	-0.001	0.000	-0.000

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT X DISP	DISPLACEMENT Y DISP	DISPLACEMENT Z DISP	ROTATION X ROT	ROTATION Y ROT	ROTATION Z ROT
1010	GLOBAL	-0.033	0.091	-0.010	-0.000	-0.000	-0.000
1007	GLOBAL	0.008	0.172	0.018	-0.000	0.000	-0.000
910	GLOBAL	-0.007	0.199	-0.012	-0.000	0.000	-0.000
1001	GLOBAL	0.008	0.171	0.015	-0.000	0.000	0.000
907	GLOBAL	0.003	0.223	0.011	-0.000	0.000	0.000
810	GLOBAL	0.010	0.260	-0.012	-0.000	0.000	-0.000
1002	GLOBAL	0.005	0.162	0.013	-0.000	-0.000	0.000
1004	GLOBAL	-0.006	0.168	-0.010	-0.000	0.000	0.000
901	GLOBAL	0.002	0.222	0.010	-0.000	0.000	0.000
807	GLOBAL	0.005	0.255	0.003	-0.000	0.000	-0.000
710	GLOBAL	0.010	0.276	-0.011	0.000	-0.000	-0.000
1003	GLOBAL	0.002	0.146	0.013	-0.000	-0.000	0.000
1005	GLOBAL	-0.006	0.156	-0.005	-0.000	-0.000	0.000
903	GLOBAL	0.004	0.193	0.009	-0.000	-0.000	0.000
1006	GLOBAL	-0.016	0.153	-0.032	-0.000	0.000	0.000
906	GLOBAL	-0.008	0.209	-0.021	-0.000	0.000	-0.000
902	GLOBAL	0.003	0.209	0.012	-0.000	-0.000	0.000
904	GLOBAL	-0.006	0.214	-0.008	-0.000	0.000	0.000
806	GLOBAL	0.001	0.251	-0.005	-0.000	0.000	-0.000
801	GLOBAL	0.005	0.255	0.002	-0.000	0.000	-0.000
707	GLOBAL	0.003	0.267	-0.003	0.000	-0.000	-0.000
510	GLOBAL	0.004	0.271	-0.008	0.000	-0.000	-0.000
1008	GLOBAL	0.002	0.146	0.015	-0.000	-0.000	0.000
908	GLOBAL	0.004	0.195	0.010	-0.000	-0.000	0.000
905	GLOBAL	-0.006	0.203	-0.007	-0.000	-0.000	0.000
803	GLOBAL	0.003	0.241	0.001	-0.000	0.000	-0.000
1009	GLOBAL	-0.016	0.153	-0.036	-0.000	0.000	0.000
909	GLOBAL	-0.008	0.210	-0.025	-0.000	0.000	-0.000
809	GLOBAL	0.002	0.252	-0.010	-0.000	0.000	-0.000
805	GLOBAL	-0.000	0.247	-0.002	0.000	-0.000	0.000
804	GLOBAL	0.000	0.252	-0.002	-0.000	0.000	0.000
706	GLOBAL	0.048	0.295	0.013	-0.000	0.000	-0.000

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
701	GLOBAL	0.004	0.268	-0.004	-0.000	-0.000	-0.000
802	GLOBAL	0.004	0.250	0.003	-0.000	-0.000	0.000
703	GLOBAL	0.002	0.313	-0.009	-0.000	-0.000	-0.000
507	GLOBAL	0.002	0.269	-0.007	0.000	-0.000	-0.000
401	GLOBAL	0.003	0.272	-0.008	-0.000	-0.000	-0.000
1011	GLOBAL	0.030	0.089	-0.009	-0.000	0.000	-0.000
911	GLOBAL	-0.002	0.196	-0.010	-0.000	-0.000	-0.000
808	GLOBAL	0.003	0.242	0.004	-0.000	0.000	-0.000
1012	GLOBAL	0.004	0.143	0.019	-0.000	0.000	-0.000
912	GLOBAL	0.014	0.202	0.022	-0.000	0.000	-0.000
812	GLOBAL	0.029	0.246	0.024	-0.000	0.000	-0.000
709	GLOBAL	0.051	0.295	0.012	-0.000	0.000	-0.000
656	GLOBAL	0.051	0.296	0.015	-0.000	0.000	-0.000
705	GLOBAL	0.024	0.305	0.002	0.000	-0.000	-0.000
704	GLOBAL	0.024	0.280	0.004	0.000	0.000	-0.000
503	GLOBAL	0.000	0.315	-0.012	-0.000	-0.000	-0.000
702	GLOBAL	0.003	0.292	-0.006	0.000	-0.000	-0.000
651	GLOBAL	0.004	0.269	-0.005	-0.000	-0.000	-0.000
506	GLOBAL	0.050	0.292	0.019	0.000	0.000	-0.000
708	GLOBAL	0.001	0.315	-0.008	-0.000	0.000	-0.000
653	GLOBAL	0.002	0.317	-0.010	-0.000	-0.000	-0.000
501	GLOBAL	0.004	0.271	-0.007	-0.000	-0.000	-0.000
301	GLOBAL	-0.001	0.301	-0.008	-0.000	-0.000	-0.000
811	GLOBAL	-0.018	0.274	-0.012	-0.000	0.000	-0.000
712	GLOBAL	0.045	0.292	0.027	-0.000	0.000	-0.000
515	GLOBAL	0.055	0.292	0.017	-0.000	0.000	-0.000
508	GLOBAL	-0.001	0.318	-0.012	-0.000	-0.000	-0.000
514	GLOBAL	-0.002	0.319	-0.011	-0.000	0.000	-0.000
403	GLOBAL	-0.000	0.314	-0.012	-0.000	-0.000	-0.000
603	GLOBAL	0.001	0.316	-0.011	0.000	-0.000	-0.000
502	GLOBAL	0.002	0.292	-0.009	0.000	-0.000	-0.000
505	GLOBAL	0.024	0.304	0.003	0.000	-0.000	-0.000
513	GLOBAL	0.002	0.269	-0.005	-0.000	-0.000	-0.000
601	GLOBAL	-0.002	0.269	-0.005	0.000	-0.000	-0.000
601	GLOBAL	0.004	0.270	-0.006	0.000	-0.000	-0.000
509	GLOBAL	0.054	0.292	0.020	0.000	0.000	-0.000
406	GLOBAL	0.050	0.291	0.020	0.000	0.000	-0.000
504	GLOBAL	0.024	0.280	0.005	0.000	0.000	-0.000
711	GLOBAL	-0.001	0.316	-0.015	-0.000	0.000	-0.000
603	GLOBAL	-0.002	0.317	-0.010	0.000	-0.000	-0.000
206	GLOBAL	0.045	0.317	0.019	0.000	-0.000	-0.000
303	GLOBAL	-0.000	0.349	-0.012	-0.000	-0.000	-0.000
306	GLOBAL	0.046	0.326	0.020	-0.000	-0.000	-0.000
201	GLOBAL	-0.002	0.293	-0.008	0.000	-0.000	-0.000

RESULTANT JOINT DISPLACEMENTS - FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
512	GLOBAL	0,050	0,292	0,021	0,000	0,000	-0,000
511	GLOBAL	0,000	0,315	-0,013	0,000	-0,000	-0,000
613	GLOBAL	-0,004	0,316	-0,010	-0,000	-0,000	-0,000
662	GLOBAL	-0,002	0,308	-0,008	0,000	-0,000	-0,000
611	GLOBAL	-0,004	0,270	-0,006	-0,000	-0,000	-0,000
106	GLOBAL	0,040	0,307	0,019	0,000	-0,000	-0,000
205	GLOBAL	0,019	0,330	0,004	0,000	-0,000	-0,000
204	GLOBAL	0,019	0,304	0,006	0,000	-0,000	-0,000
203	GLOBAL	-0,003	0,342	-0,011	0,000	-0,000	-0,000
101	GLOBAL	-0,004	0,282	-0,008	0,000	-0,000	-0,000
202	GLOBAL	-0,003	0,317	-0,009	0,000	-0,000	-0,000
612	GLOBAL	-0,004	0,307	-0,008	0,000	-0,000	-0,000
105	GLOBAL	0,018	0,320	0,005	0,000	-0,000	-0,000
104	GLOBAL	0,018	0,294	0,007	0,000	-0,000	-0,000
103	GLOBAL	-0,004	0,332	-0,011	0,000	-0,000	-0,000
102	GLOBAL	-0,004	0,307	-0,010	0,000	-0,000	-0,000

LOADING = 2 EARTHQUAKE LOADS IN X-DIRECTION

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
41	101	305,491	-2,448	-110,949	-0,478	20320,051	-376,332
41	102	-305,491	2,448	110,949	0,478	-1014,935	-49,614
42	102	53,485	-3,634	-109,952	-0,181	1336,128	-105,063
42	103	-53,485	3,634	109,952	0,181	17795,563	-527,295
43	103	-348,611	5,660	-47,414	2,672	9312,887	659,354
43	105	348,611	-5,660	47,414	-2,672	-1066,552	325,094
44	105	-220,557	-4,549	-49,589	-3,570	1307,785	-271,414
44	106	220,557	4,549	49,589	3,570	7322,031	-520,280
45	101	166,056	-4,697	-59,130	3,841	10290,285	-524,442
45	104	-166,056	4,697	59,130	-3,841	-6,275	-292,538
46	104	39,894	4,323	-62,301	-2,127	74,910	248,302
46	106	-39,894	-4,323	62,301	2,127	10767,246	503,964
47	102	-120,411	-0,623	1,432	-0,357	-320,891	-75,695
47	104	120,411	0,623	-1,432	0,357	71,776	-32,704
48	102	121,749	0,679	0,436	-0,109	-320,405	78,983
48	105	-121,749	-0,679	-0,436	0,109	244,635	39,071
49	104	-1,576	0,150	1,740	0,456	-65,356	11,552

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
49	105	1,376	-0,150	-1,740	-0,456	-237,339	14,609
50	201	3392,289	-5,784	-61,452	0,276	10865,301	-654,470
50	202	-3392,289	5,784	61,452	-0,276	-172,591	-352,003
51	202	3156,075	0,515	-61,160	0,258	424,009	245,357
51	203	-3156,075	-0,515	61,160	-0,258	10217,762	-155,723
52	203	-2891,987	1,671	-28,973	1,463	4842,203	286,056
52	205	2891,987	-1,671	28,973	-1,463	196,824	4,597
53	205	-2777,766	-2,372	-30,930	-1,972	-50,879	-43,570
53	206	2777,766	2,372	30,930	1,972	5453,566	-369,167
54	201	-250,286	-7,050	-29,048	1,808	4640,586	-795,770
54	204	250,286	7,050	29,048	-1,808	411,471	-432,314
55	204	-374,691	3,462	-51,298	-1,687	-316,446	227,735
55	206	374,691	-3,462	51,298	1,687	5763,117	374,787
56	202	-117,319	-1,237	0,887	-0,219	-251,003	-94,235
56	204	117,319	1,237	-0,887	0,219	96,697	-120,880
57	202	110,856	-0,169	0,594	-0,146	-250,981	12,411
57	205	-110,656	0,169	-0,594	0,146	147,592	-41,826
58	204	5,935	0,497	1,363	0,355	-93,161	83,699
58	205	-5,935	-0,497	-1,363	-0,355	-144,000	2,852
59	201	-8354,480	-17,208	-56,161	270,026	8466,191	-3244,146
59	303	8354,480	17,208	56,161	-270,026	13537,496	-3497,881
60	203	4123,641	-14,420	-23,796	-2153,829	3567,148	-1902,952
60	306	-4123,641	14,420	23,796	2153,829	5754,922	-3746,244
61	206	4010,525	16,065	-21,204	2028,212	3332,149	2548,436
61	301	-4010,525	-16,065	21,204	-2028,212	4974,711	3744,119
62	301	4035,228	-30,444	-129,265	286,800	22490,227	-5120,301
62	303	-4035,228	30,444	129,265	-286,800	22494,066	-5474,230
63	303	-617,669	-3,398	-64,055	-30,532	10963,887	921,349
63	306	617,669	3,398	64,055	30,532	11324,051	-2103,775
64	301	-3321,023	-6,469	-62,051	2,076	10540,844	-2461,089
64	306	3321,023	6,469	62,051	-2,076	11049,852	210,053
65	501	8125,656	-185,443	-189,838	-34,387	32465,105	-22276,629
65	502	-8125,656	185,443	189,838	34,387	2047,475	-11436,945
66	502	7829,586	28,099	-194,749	-813,978	1948,439	8401,563
66	503	-7829,586	-28,099	194,749	813,978	33456,863	-3293,137
67	503	-12216,715	23,662	-135,246	4589,801	21557,863	7269,875
67	505	12216,715	-23,662	135,246	-4589,801	5029,455	-2968,132
68	505	-12169,934	5,873	-84,441	-4203,688	-759,529	3855,957
68	506	12169,934	-5,873	84,441	4203,688	16110,633	-2788,182
69	501	1604,919	-185,585	-114,015	4688,707	17567,211	-24239,449
69	504	-1604,919	185,585	114,015	-4688,707	3160,349	-9462,957
70	504	1206,532	10,848	-58,299	-4723,277	-1255,012	360,717
70	506	-1206,532	-10,848	58,299	4723,277	11853,629	1611,334
71	502	-223,716	-45,268	-20,575	-1590,240	-1139,752	-2960,651

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
71	504	223,716	43,268	20,575	1590,240	4880,148	-4905,254
72	502	5,929	-3,136	-15,664	-1288,600	-1865,776	74,733
72	505	-5,929	3,136	15,664	1288,600	4713,464	-644,932
73	501	-1618,890	-0,584	-6,271	-36335,176	177,856	-158,517
73	507	1618,890	0,584	6,271	36335,176	13,098	140,745
74	507	1618,902	0,0	0,0	36335,449	0,0	0,0
74	510	-1618,902	0,0	0,0	-36335,449	0,0	0,0
75	503	6404,867	2,309	-24,809	-138126,688	705,687	605,346
75	508	-6404,867	-2,309	24,809	138126,688	49,793	-535,058
76	508	-6404,918	0,0	0,0	138127,750	0,0	0,0
76	511	6404,918	0,0	0,0	-138127,750	0,0	0,0
77	506	-1477,952	5,759	-0,000	96447,563	-375,814	175,075
77	509	1477,952	-5,759	0,000	-96447,563	375,814	-0,000
78	509	1477,963	0,0	0,0	-96448,313	0,0	0,0
78	512	-1477,963	0,0	0,0	96448,313	0,0	0,0
79	501	-568,719	-48,815	3394,461	-654,891	-78442,000	-2225,372
79	513	568,719	48,815	-3394,461	654,891	-43473,445	472,141
80	503	404,544	7,913	3640,958	428,295	-84269,875	714,572
80	514	-404,544	-7,913	-3640,958	-428,295	-46498,758	-430,355
81	506	-61,307	106,905	506,622	873,560	-12363,020	1989,934
81	515	61,307	-106,905	-506,622	-873,560	-5875,379	1858,632
82	513	-3394,461	142,549	-261,535	472,141	37947,926	21220,844
82	651	3394,461	-142,549	261,535	-472,141	18543,656	9569,688
83	514	3640,958	-195,897	-272,038	430,355	40023,020	-23674,371
83	653	-3640,958	195,897	272,038	-430,355	18737,254	-18639,473
84	515	-506,622	-61,307	-24,905	1858,632	873,560	-5875,379
84	656	506,622	61,307	24,905	-1856,632	4505,836	-7566,977
85	601	-18,682	-248,379	205,970	-1280,157	-9564,536	-14943,344
85	611	18,682	248,379	-205,970	1280,157	-5265,551	-2939,957
86	603	15,447	49,109	-307,667	-1873,000	16293,777	4897,203
86	613	-15,447	-49,109	307,667	1873,000	5858,223	-1361,326
87	651	40,390	-344,869	-141,789	-855,967	7688,988	-17603,344
87	661	-40,390	344,869	141,789	855,967	818,335	-3088,809
88	653	-37,155	7,139	243,485	-1316,623	-12732,242	2989,323
88	663	37,155	-7,139	-243,485	1316,623	-1876,857	-2560,942
89	611	166,047	-11,954	-36,030	-286,254	3661,265	-2799,240
89	612	-166,047	11,954	36,030	286,254	3260,736	502,704
90	612	153,158	-11,004	-36,190	-418,945	3252,151	-523,501
90	613	-153,158	11,004	36,190	418,945	3700,645	-1590,603
91	661	254,202	-9,754	-28,152	250,601	5106,930	-2593,480
91	662	-254,202	9,754	28,152	-250,601	2886,985	516,947
92	662	76,090	-10,704	-27,992	246,515	2857,133	-496,149
92	663	-76,090	10,704	27,992	-246,515	3101,759	-1782,585
93	611	-167,108	30,636	31,838	571,271	-2381,107	4948,395

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
93	601	167.108	-30.636	-31.838	-571.271	-2250.963	-491.246
94	612	0.160	-0.950	85.112	20.797	-6512.887	-132.690
94	602	-0.160	0.950	-85.112	-20.797	-5743.215	-4.086
95	613	270.703	-26.451	24.852	1003.067	-1827.645	-5350.902
95	603	-270.703	26.451	-24.852	-1003.067	-1785.135	1502.589
96	501	-19923.484	-92.729	-111.811	-3041.008	29515.410	-18720.590
96	703	19923.484	92.729	111.811	3041.008	27080.020	-28216.164
97	503	15745.797	-63.571	-127.843	-2869.195	32690.504	-11351.254
97	706	-15745.797	63.571	127.843	2869.195	32020.754	-20827.078
98	506	9990.117	44.189	3.423	3267.440	4421.027	6601.125
98	701	-9990.117	-44.189	-3.423	-3267.440	-6153.480	15764.414
99	701	3347.701	-42.946	-21.136	-138.508	4800.672	-6783.879
99	702	-3347.701	42.946	21.136	138.508	-42.540	-2884.182
100	504	199.526	31.517	-35.141	2924.955	3380.998	4196.984
100	505	-199.526	-31.517	35.141	-2924.955	3007.627	1532.757
101	702	3022.746	-9.180	-26.744	-1692.168	577.838	1199.228
101	703	-3022.746	9.180	26.744	1692.168	5442.719	-3265.916
102	703	-6963.258	21.689	-50.660	-147.993	9915.441	4620.234
102	705	6963.258	-21.689	50.660	147.993	1485.753	261.003
103	705	-6794.051	6.605	-45.659	-1598.188	852.873	1301.778
103	706	6794.051	-6.605	45.659	1598.188	9427.395	185.452
104	701	2032.414	-46.834	-16.112	604.233	2651.855	-7638.875
104	704	-2032.414	46.834	16.112	-604.233	974.255	-2901.069
105	704	1810.692	-7.014	-5.503	-2451.044	-94.486	-875.904
105	706	-1810.692	7.014	5.503	2451.044	1333.466	-703.338
106	702	-174.664	-13.717	-9.821	-667.684	466.554	-1220.181
106	704	174.664	13.717	9.821	667.684	1743.654	-1866.797
107	702	141.420	3.762	-4.213	243.058	-801.629	464.772
107	705	-141.420	-3.762	4.213	-243.058	1749.778	581.885
108	704	27.273	13.731	-0.789	1113.387	755.706	1910.176
108	705	-27.273	-13.731	0.789	-1113.387	-578.158	1180.896
109	701	-2188.331	-0.789	-8.477	-3601.356	256.824	-37.972
109	707	2188.331	0.789	8.477	3601.356	1.298	15.950
110	707	2188.347	0.0	0.0	3601.363	0.0	0.0
110	710	-2188.347	0.0	0.0	-3601.363	0.0	0.0
111	703	-1029.028	-0.371	3.986	24145.570	-112.674	-104.824
111	708	1029.028	0.371	-3.986	-24145.570	-8.704	93.528
112	708	1029.056	0.0	0.0	-24145.754	0.0	0.0
112	711	-1029.056	0.0	0.0	24145.754	0.0	0.0
113	706	3681.813	-14.346	0.000	183252.688	-714.055	-436.141
113	709	-3681.813	14.346	-0.000	-183252.688	714.055	-0.000
114	709	-3681.841	0.0	0.0	-183254.063	0.0	0.0
114	712	3681.841	0.0	0.0	183254.063	0.0	0.0
115	701	-10689.063	21.928	-29.232	-7271.680	2408.987	10071.625

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
115	806	10689.063	-21.928	29.232	7271.680	15186.418	3127.484
116	703	18162.219	25.679	-45.352	-1456.040	8[illegible]0.004	5345.867
116	801	-18162.219	-25.679	45.352	1456.040	18709.281	10110.043
117	701	-8504.613	12.570	-54.163	-2193.459	11196.785	9930.859
117	803	8504.613	-12.570	54.163	2193.439	21403.773	-2364.990
118	801	6609.609	17.499	-47.189	-587.194	13675.156	6461.762
118	802	-6609.609	-17.499	47.189	587.194	-769.978	-1676.262
119	802	6126.410	54.156	-63.329	-4297.352	1463.055	6040.199
119	803	-6126.410	-54.156	63.329	4297.352	15856.184	8770.273
120	803	-8409.172	-47.858	-120.405	-1454.200	29316.352	-7695.477
120	805	8409.172	47.858	120.405	1454.200	3612.405	-5342.805
121	805	-8206.586	-21.128	-106.222	-5150.547	283.343	1692.223
121	806	8206.586	21.128	106.222	5150.547	28775.004	-7471.656
122	801	1135.657	21.752	-42.966	380.298	8170.262	5445.141
122	804	-1135.657	-21.752	42.966	-380.298	3580.141	503.650
123	804	869.813	25.040	-12.642	-7074.129	-1725.323	227.060
123	806	-869.813	-25.040	12.642	7074.129	5181.590	6622.520
124	802	-272.574	8.125	-22.341	-1244.569	1741.937	1676.749
124	804	272.574	-8.125	22.341	1244.569	4369.414	545.690
125	802	236.578	-19.094	-6.201	368.539	-1610.896	-2687.137
125	805	-236.578	19.094	6.201	-368.539	3307.150	-2535.896
126	804	55.769	-4.933	-7.982	2175.121	2265.050	-185.020
126	805	-55.769	4.935	7.982	-2175.121	-81.217	-1164.689
127	801	2449.662	0.883	9.489	124066.813	-244.223	507.466
127	807	-2449.662	-0.883	-9.489	-124066.813	-44.724	-480.575
128	807	-2449.681	0.0	0.0	-124067.750	0.0	0.0
128	810	2449.681	0.0	0.0	124067.750	0.0	0.0
129	803	943.640	0.340	-3.655	254676.313	203.113	-976.135
129	808	-943.640	-0.340	3.655	-254676.313	-91.807	986.494
130	808	-943.647	0.0	0.0	-254678.250	0.0	0.0
130	811	943.647	0.0	0.0	254678.250	0.0	0.0
131	806	-3608.256	14.060	-0.000	15949.832	-62.149	427.427
131	809	3608.256	-14.060	0.000	-15949.832	62.149	-0.000
132	809	3608.284	0.0	0.0	-15949.953	0.0	0.0
132	812	-3608.284	0.0	0.0	15949.953	0.0	0.0
133	801	-21959.148	25.850	-54.479	2107.622	14638.641	9757.801
133	903	21959.148	-25.850	54.479	-2107.622	24324.617	8730.023
134	803	14623.563	-61.183	-30.714	-5123.387	9411.016	-25711.785
134	906	-14623.563	61.183	30.714	5123.387	12555.934	-18046.950
135	806	9918.551	-15.258	-39.966	-371.222	14037.605	-7724.551
135	901	-9918.551	15.258	39.966	371.222	14547.574	-3188.129
136	901	7945.605	-11.382	-71.322	618.398	22008.148	520.722
136	902	-7945.605	11.382	71.322	-618.398	1459.735	-4265.969
137	902	7622.113	42.056	-69.189	1197.906	1076.014	5952.246

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
137	903	-7622.113	-42.056	69.189	-1197.906	21689.762	7885.949
138	905	-4016.266	-34.344	36.799	2737.725	9319.004	-7456.574
138	905	4016.266	34.344	36.799	-2737.725	2786.854	-3841.746
139	905	-3891.520	-9.836	-17.742	-3089.022	-1837.101	481.793
139	906	3891.520	9.836	17.742	3089.022	7675.563	-3718.504
140	901	-4582.969	-6.699	-46.983	2447.038	12623.516	487.423
140	904	4582.969	6.699	46.983	-2447.038	2832.657	-2691.234
141	904	-4796.980	18.081	-30.060	-2771.100	-1564.276	2519.193
141	906	4796.980	-18.081	30.060	2771.100	11456.293	3430.798
142	902	-205.233	-0.264	-4.574	-776.796	-1231.960	241.406
142	904	205.233	0.264	4.574	776.796	2736.525	-328.093
143	902	149.792	-10.592	-6.707	-1030.394	-709.210	-1444.873
143	905	-149.792	10.592	6.707	1030.394	2915.738	-2039.754
144	904	52.142	-4.487	-12.350	1726.137	1843.200	-156.055
144	905	-52.142	4.487	12.350	-1726.137	2220.536	-1320.200
145	901	-13401.977	-4.831	-51.913	337165.875	1702.359	1158.906
145	907	13401.977	4.831	51.913	-337165.875	-121.542	-1306.022
146	907	13402.078	0.0	0.0	-337168.375	0.0	0.0
146	910	-13402.078	0.0	0.0	337168.375	0.0	0.0
147	903	11900.820	4.290	-46.098	235432.875	1488.619	-781.319
147	908	-11900.820	-4.290	46.098	-235432.875	-84.869	911.956
148	908	-11900.910	0.0	0.0	-235434.688	0.0	0.0
148	911	11900.910	0.0	0.0	235434.688	0.0	0.0
149	906	1620.600	-6.315	-0.000	-573270.313	2233.782	-191.973
149	909	-1620.600	6.315	0.000	573270.313	-2233.782	-0.000
150	909	-1620.612	0.0	0.0	573274.688	0.0	0.0
150	912	1620.612	0.0	0.0	-573274.688	0.0	0.0
151	901	-24456.105	-4.036	2.080	939.907	3441.896	-678.919
151	1002	24456.105	4.036	-2.080	-939.907	-4495.754	-1366.234
152	903	24507.551	7.146	18.881	389.934	-845.408	1653.322
152	1002	-24507.551	-7.146	-18.881	-389.934	-8723.500	1967.522
153	903	11768.875	3.506	10.558	497.757	-1705.165	99.201
153	1005	-11768.875	-3.506	-10.558	-497.757	-3644.640	1677.275
154	906	-11614.628	16.806	-5.999	-126.152	3377.520	3283.709
154	1005	11614.628	-16.806	5.999	126.152	-338.094	5231.887
155	901	-12137.063	-9.379	7.326	893.501	-855.519	-1105.960
155	1004	12137.063	9.379	-7.326	-893.501	-2856.445	-3646.650
156	906	11928.863	2.187	-8.785	-227.041	4397.645	1926.050
156	1004	-11928.863	-2.187	8.785	227.041	53.466	-817.946
157	1001	16351.254	31.888	-101.755	2531.958	29940.234	8715.082
157	1002	-16351.254	-31.888	101.755	-2531.958	9182.594	3545.328
158	1002	-15639.250	22.264	-83.041	1976.949	4158.531	2452.103
158	1003	15639.250	-22.264	83.031	-1976.949	27765.246	6107.820
159	1003	-13373.160	16.493	-9.949	4695.070	4917.117	2228.677

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
159	1005	13373,160	-16,493	9,949	-4695,070	-1091,776	4112,871
160	1005	1922,159	-0,566	-85,019	-5322,785	8035,355	-993,112
160	1006	-1922,159	0,566	85,019	5322,785	24655,176	775,673
161	1001	13160,480	-4,009	6,236	3944,231	1846,240	692,171
161	1004	-13160,480	4,009	-6,236	-3944,231	-4244,133	-2233,634
162	1004	-2550,043	3,198	-87,924	-6666,461	10239,055	1735,326
162	1006	2550,043	-3,198	87,924	6666,461	23568,160	-505,778
163	1002	-65,035	3,204	-19,746	-652,129	1961,841	1013,021
163	1004	65,035	-3,204	19,746	652,129	5630,652	218,914
164	1002	76,707	-4,469	-10,267	-976,741	394,846	-1172,684
164	1005	-76,707	4,469	10,267	976,741	3552,731	-545,752
165	1004	-12,115	1,939	-30,898	1550,617	5716,066	456,511
165	1005	12,115	-1,939	30,898	-1550,617	6163,469	289,124
166	1001	25642,199	9,235	99,228	393456,688	-2879,937	1803,791
166	1007	-25642,199	-9,235	-99,228	-393456,688	-141,705	-1522,569
167	1007	-25642,391	0,0	0,0	-393459,625	0,0	0,0
167	1010	25642,391	0,0	0,0	393459,625	0,0	0,0
168	1003	-25537,434	-9,125	98,049	315499,438	-2872,101	-1498,776
168	1008	25537,434	9,125	-98,049	-315499,438	-115,628	1220,896
169	1008	25537,625	0,0	0,0	-315501,813	0,0	0,0
169	1011	-25537,625	0,0	0,0	315501,813	0,0	0,0
170	1006	-392,848	1,529	0,000	-626839,500	2440,125	46,491
170	1009	392,848	-1,529	-0,000	626839,500	-2440,125	-0,000
171	1009	392,851	0,0	0,0	626844,250	0,0	0,0
171	1012	-392,851	0,0	0,0	-626844,250	0,0	0,0
172	101	170,078	-138,990	764,623	900,775	-25470,785	-8908,898
172	201	-170,078	138,990	-764,623	-900,775	-112161,313	-16109,297
173	103	-157,566	295,569	497,898	1186,649	-22456,375	8062,859
173	203	157,566	-295,569	-497,898	-1186,649	-67165,313	45139,657
174	106	-12,713	-156,579	251,479	-1024,245	-9048,156	-2984,521
174	206	12,713	156,579	-251,479	1024,245	-36217,992	-25199,777
175	201	4148,703	104,251	-2650,980	5106,469	90506,938	13822,477
175	301	-4148,703	-104,251	2650,980	-5106,469	383069,500	4942,715
176	203	-2166,720	-363,110	-2505,251	3268,171	53901,152	-36716,000
176	303	2166,720	363,110	2505,251	-3268,171	361044,063	-28643,875
177	206	-1879,434	188,011	-1992,368	-2771,626	30047,945	20399,770
177	306	1879,434	-188,011	1992,368	2771,626	328578,313	13442,234
178	301	6206,571	-60,584	2528,752	13470,918	-415571,875	-18235,617
178	401	-6206,571	60,584	-2528,752	-13470,918	-449261,250	-2486,097
179	303	-6205,660	125,829	2477,491	13580,914	-402531,563	39001,836
179	403	6205,660	-125,829	-2477,491	-13580,914	-444900,250	4038,329
180	306	41,792	-65,245	2183,993	-5496,234	-345125,813	-8407,754
180	406	-41,792	65,245	-2183,993	5496,234	-401799,688	-13906,086
181	401	-86972,188	1892,800	4175,270	-24793,906	74072,125	100075,250

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
181	501	86972,188	-1892,800	-4175,270	24793,906	-302670,875	3556,747
182	403	86358,188	-3958,630	10008,863	-15518,512	-279794,500	-272024,500
182	503	-86358,188	3958,630	-10008,863	15518,512	-279917,875	50651,328
183	406	42,076	-179,783	7810,605	61435,273	-178307,625	27255,926
183	506	-42,076	179,783	-7810,605	-61435,273	-249283,000	-37098,094
184	501	-72199,688	254,026	-2239,434	40767,426	282551,875	55823,281
184	601	72199,688	-254,026	2239,434	-40767,426	-119111,500	-37283,758
185	503	74608,813	-2221,955	-1525,029	3922,189	216994,563	-168903,688
185	603	-74608,813	2221,955	1525,029	-3922,189	-105693,563	6739,023
186	506	-5748,641	-524,752	-1690,523	54947,484	129941,063	20341,707
186	656	5748,641	524,752	1690,523	-54947,484	240248,813	-135251,563
187	601	-71841,438	265,524	-1128,863	27523,887	116754,125	48841,309
187	651	71841,438	-265,524	1128,863	-27523,887	48060,418	-10079,363
188	603	74192,188	-2241,533	-721,584	11230,449	104416,875	-22156,988
188	653	-74192,188	2241,533	721,584	-11230,449	922,010	-305068,313
189	651	-75209,938	207,808	423,075	9725,281	-66995,875	-4564,398
189	701	75209,938	-207,808	-423,075	-9725,281	52961,801	22263,789
190	653	77956,688	-2202,529	525,144	11271,770	-21045,211	336621,813
190	703	-77956,688	2202,529	-525,144	-11271,770	-23682,328	-524215,438
191	656	-6258,676	-499,052	-621,428	55927,145	-245024,688	142618,500
191	706	6258,676	499,052	621,428	-55927,145	297948,750	-185120,375
192	701	-58608,629	-411,056	-254,781	27971,047	-45304,332	-51868,059
192	801	58608,629	411,056	254,781	-27971,047	132085,875	-88142,438
193	703	55010,855	3171,737	-462,357	44504,078	-7515,516	578041,938
193	803	-55010,855	-3171,737	462,357	-44504,078	164999,813	502289,063
194	706	4244,211	1155,360	2142,764	58997,105	-515195,688	220865,750
194	806	-4244,211	-1155,360	-2142,764	-58997,105	-214676,000	172674,875
195	801	-35756,242	-173,858	156,851	15464,020	-122993,063	-35298,938
195	901	35756,242	173,858	-156,851	-15464,020	61928,027	-32587,285
196	803	42357,148	-593,611	7,901	18297,016	-94514,500	-223271,188
196	903	-42357,148	593,611	-7,901	-18297,016	91458,375	-7833,070
197	806	-8041,488	-516,827	-874,538	27724,496	149855,625	-157418,063
197	906	8041,488	516,827	874,538	-27724,496	190610,500	-43767,797
198	901	-4350,125	-1558,842	-566,956	5676,711	58595,211	-270486,375
198	1001	4350,125	1558,842	566,956	-5676,711	162121,750	-336374,063
199	903	4276,477	1233,525	-243,540	700,286	-29173,332	207924,375
199	1003	-4276,477	-1233,525	243,540	-700,286	123983,750	272211,563
200	906	92,583	141,733	-2427,205	5099,039	352324,625	53518,176
200	1006	-92,583	-141,733	2427,205	-5099,039	592610,188	1659,684
201	401	93579,688	-1418,222	-1692,209	1115,513	374770,625	-99550,375
201	510	-93579,688	1418,222	1692,209	-1115,513	-281920,625	21715,816
202	403	-93201,438	3540,733	-8382,727	-6374,820	724381,188	271694,938
202	511	93201,438	-3540,733	8382,727	6374,820	-254652,688	-75280,563
203	406	-11,618	108,550	-4779,613	-1008,422	575545,625	-13349,840

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
203	512	11,618	-108,550	4779,613	1008,422	-313317,938	19305,277
204	510	93801,125	-697,781	-1585,943	1440,779	299869,250	-53312,215
204	710	-93801,125	697,781	1585,943	-1440,779	181867,188	-156909,313
205	511	-93797,750	265,289	-2541,623	1254,438	323497,563	191438,438
205	711	93797,750	-265,289	2541,623	-1254,438	449505,125	-111362,500
206	512	-9,849	-1369,406	-3222,615	-967,217	409766,250	-19305,082
206	712	9,849	1369,406	3222,615	967,217	570574,563	-397192,188
207	710	94137,188	412,640	-1127,238	1376,224	-180093,938	155771,875
207	810	-94137,188	-412,640	1127,238	-1376,224	564044,625	-15221,687
208	711	-94129,688	742,396	712,384	1280,370	-461450,188	90385,875
208	811	94129,688	-742,396	-712,384	-1280,370	218783,625	162482,938
209	712	-14,957	2312,427	-669,615	-1040,571	-387121,000	397192,188
209	812	14,957	-2312,427	869,615	1040,571	683550,813	390470,250
210	610	94423,750	-755,876	2937,941	1423,741	-625332,563	125127,500
210	910	-94423,750	755,876	-2937,941	-1423,741	-518463,938	-416625,938
211	811	-94420,063	232,492	1827,273	1277,457	-344584,563	-585928,125
211	911	94420,063	-232,492	-1827,273	-1277,457	-366807,813	474441,625
212	812	-10,029	-1295,848	1156,384	-1354,125	-667380,188	-590470,125
212	912	10,029	1295,848	-1156,384	1354,125	217188,375	-114016,313
213	910	94612,625	5881,930	-7455,469	981,213	351884,625	709789,813
213	1010	-94612,625	-5881,930	7453,469	-981,213	2549764,000	1580057,000
214	911	-94607,875	-5661,738	-7258,934	912,409	250485,563	-679149,250
214	1011	94607,875	5661,738	7258,934	-912,409	2575430,000	-1524975,000
215	912	-11,792	324,763	2401,384	-731,408	-790462,250	114016,250
215	1012	11,792	-324,763	-2401,384	731,408	-144419,688	12417,000
216	1010	94626,750	-6787,617	15047,082	0,000	-2744181,000	-1257878,000
216	1110	-94626,750	6787,617	-15047,082	-0,000	0,000	0,000
217	1011	-94624,250	6857,254	14976,645	0,000	-2731334,000	1250577,000
217	1111	94624,250	-6857,254	-14976,645	-0,000	0,000	0,000
218	1012	-11,356	-68,089	2645,384	0,000	-482424,125	-12417,000
218	1112	11,356	68,089	-2645,384	-0,000	0,000	-0,000

RESULTANT JOINT LOADS = SUPPORTS

JOINT		FORCE			MOMENT		
		X FORCE	Y FORCE	Z FORCE	X MOMENT	Y MOMENT	Z MOMENT
1110	GLOBAL	-28323,395	14547,746	90626,875	0,000	0,000	-0,000
1111	GLOBAL	-28252,219	-14616,773	-90626,875	0,000	0,000	-0,000
1112	GLOBAL	-2645,384	69,029	-0,000	-0,000	0,000	0,000
		-59,220.998	0.002	0.000			

RESULTANT JOINT DISPLACEMENTS = SUPPORTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1110	GLOBAL	0.0	0.0	0.0	0.000	0.001	-0.000
1111	GLOBAL	0.0	0.0	0.0	-0.000	0.001	-0.000
1112	GLOBAL	0.0	0.0	0.0	-0.000	0.000	-0.000

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1010	GLOBAL	0.124	-0.030	0.016	0.000	0.000	-0.000
1007	GLOBAL	0.164	0.023	-0.030	-0.000	0.000	0.000
910	GLOBAL	0.197	-0.002	0.019	-0.000	0.000	-0.000
1001	GLOBAL	0.164	0.022	-0.026	-0.000	0.000	0.000
907	GLOBAL	0.214	0.014	-0.020	-0.000	0.000	0.000
810	GLOBAL	0.243	0.014	0.019	-0.000	0.000	-0.000
1002	GLOBAL	0.171	0.002	-0.003	0.000	0.000	0.000
1004	GLOBAL	0.156	0.010	-0.010	-0.000	0.000	0.000
901	GLOBAL	0.213	0.014	-0.017	-0.000	0.000	0.000
807	GLOBAL	0.249	0.014	-0.007	-0.000	0.000	0.000
710	GLOBAL	0.256	0.015	0.017	0.000	0.000	-0.000
1003	GLOBAL	0.164	-0.019	0.026	0.000	0.000	0.000
1005	GLOBAL	0.156	-0.007	0.013	0.000	0.000	0.000
903	GLOBAL	0.219	-0.017	0.017	0.000	0.000	0.000
1006	GLOBAL	0.159	0.002	-0.001	-0.000	0.000	0.000
906	GLOBAL	0.189	0.004	-0.001	0.000	0.000	0.000
902	GLOBAL	0.216	0.002	0.000	0.000	0.000	0.000
904	GLOBAL	0.205	0.010	-0.011	-0.000	0.000	0.000
806	GLOBAL	0.234	0.005	0.001	-0.000	0.000	0.000
801	GLOBAL	0.248	0.014	-0.005	-0.000	0.000	0.000
707	GLOBAL	0.256	0.012	0.005	0.000	0.000	0.000
510	GLOBAL	0.256	0.010	0.013	0.000	0.000	-0.000
1008	GLOBAL	0.165	-0.020	0.031	0.000	0.000	0.000
908	GLOBAL	0.221	-0.018	0.020	0.000	0.000	0.000
905	GLOBAL	0.203	-0.006	0.011	0.000	0.000	0.000
803	GLOBAL	0.255	-0.012	0.004	-0.000	0.000	0.000
1009	GLOBAL	0.138	0.002	-0.001	-0.000	0.000	0.000
909	GLOBAL	0.188	0.004	-0.000	0.000	0.000	0.000
809	GLOBAL	0.234	0.005	0.000	-0.000	0.000	0.000
805	GLOBAL	0.241	-0.002	0.004	0.000	0.000	0.000
804	GLOBAL	0.241	0.009	-0.004	-0.000	0.000	0.000
706	GLOBAL	0.274	0.020	0.005	-0.000	0.000	-0.000

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
701	GLOBAL	0.256	0.012	0.005	0.000	0.000	0.000
802	GLOBAL	0.251	0.003	-0.000	-0.000	-0.000	0.000
703	GLOBAL	0.258	0.023	-0.008	-0.000	0.000	0.000
507	GLOBAL	0.256	0.009	0.010	0.000	0.000	-0.000
401	GLOBAL	0.257	0.009	0.012	0.000	0.000	-0.000
1011	GLOBAL	0.125	0.031	-0.016	-0.000	0.000	-0.000
911	GLOBAL	0.200	0.005	-0.019	0.000	0.000	-0.000
808	GLOBAL	0.253	-0.013	0.007	-0.000	0.000	0.000
1012	GLOBAL	0.069	0.002	0.000	-0.000	0.000	-0.000
912	GLOBAL	0.189	0.004	0.001	0.000	0.000	-0.000
812	GLOBAL	0.264	0.005	0.001	-0.000	0.000	-0.000
709	GLOBAL	0.276	0.020	0.002	-0.000	0.000	-0.000
656	GLOBAL	0.276	0.021	0.003	-0.000	0.000	-0.000
705	GLOBAL	0.264	0.023	-0.002	0.000	-0.000	-0.000
704	GLOBAL	0.264	0.015	0.004	0.000	-0.000	-0.000
503	GLOBAL	0.260	0.023	-0.014	0.000	0.000	-0.000
702	GLOBAL	0.257	0.019	-0.001	0.000	-0.000	-0.000
651	GLOBAL	0.256	0.011	0.007	0.000	0.000	0.000
506	GLOBAL	0.277	0.021	0.003	0.000	0.000	-0.000
708	GLOBAL	0.259	0.023	-0.008	-0.000	0.000	0.000
653	GLOBAL	0.259	0.025	-0.010	-0.000	0.000	0.000
501	GLOBAL	0.256	0.009	0.011	0.000	0.000	-0.000
301	GLOBAL	0.299	0.004	0.011	0.000	0.000	-0.000
811	GLOBAL	0.241	-0.001	-0.020	-0.000	0.000	0.000
712	GLOBAL	0.284	0.020	0.003	-0.000	0.000	-0.000
515	GLOBAL	0.280	0.021	0.003	-0.000	0.000	-0.000
508	GLOBAL	0.260	0.023	-0.014	-0.000	0.000	-0.000
514	GLOBAL	0.260	0.023	-0.011	-0.000	0.000	-0.000
403	GLOBAL	0.261	0.023	-0.015	-0.000	0.000	-0.000
603	GLOBAL	0.259	0.024	-0.013	0.000	0.000	-0.000
502	GLOBAL	0.258	0.019	-0.002	0.000	-0.000	-0.000
505	GLOBAL	0.266	0.023	-0.005	0.000	-0.000	-0.000
513	GLOBAL	0.256	0.009	0.008	0.000	0.000	-0.000
651	GLOBAL	0.258	0.011	0.007	-0.000	-0.000	0.000
601	GLOBAL	0.256	0.010	0.009	0.000	0.000	-0.000
509	GLOBAL	0.279	0.021	0.004	0.000	0.000	-0.000
406	GLOBAL	0.277	0.020	0.003	0.000	0.000	-0.000
504	GLOBAL	0.266	0.015	0.007	-0.000	-0.000	-0.000
711	GLOBAL	0.262	0.014	-0.020	-0.000	0.000	0.000
663	GLOBAL	0.258	0.025	-0.011	0.000	-0.000	-0.000
206	GLOBAL	0.312	0.012	0.003	0.000	-0.000	-0.000
303	GLOBAL	0.302	0.021	-0.014	0.000	0.000	-0.000
306	GLOBAL	0.314	0.015	0.003	0.000	0.000	-0.000
201	GLOBAL	0.295	0.002	0.011	0.000	-0.000	-0.000

RESULTANT JOINT DISPLACEMENTS = FREE JUINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
512	GLOBAL	0,278	0,021	0,003	0,000	-0,000	-0,000
511	GLOBAL	0,260	0,023	-0,016	-0,000	0,000	0,000
613	GLOBAL	0,258	0,024	-0,011	-0,000	-0,000	-0,000
662	GLOBAL	0,258	0,015	-0,002	0,000	-0,000	-0,000
611	GLOBAL	0,258	0,010	0,007	0,000	-0,000	0,000
106	GLOBAL	0,305	0,008	0,003	0,000	-0,000	-0,000
205	GLOBAL	0,304	0,015	-0,005	0,000	-0,000	-0,000
204	GLOBAL	0,304	0,007	0,007	0,000	-0,000	-0,000
203	GLOBAL	0,298	0,018	-0,014	0,000	-0,000	-0,000
101	GLOBAL	0,291	-0,000	0,011	0,000	-0,000	-0,000
202	GLOBAL	0,297	0,011	-0,001	0,000	-0,000	-0,000
612	GLOBAL	0,258	0,014	-0,002	0,000	-0,000	-0,000
105	GLOBAL	0,298	0,012	-0,006	0,000	-0,000	-0,000
104	GLOBAL	0,298	0,004	0,007	0,000	-0,000	-0,000
103	GLOBAL	0,291	0,016	-0,014	0,000	-0,000	-0,000
102	GLOBAL	0,291	0,008	-0,001	0,000	-0,000	-0,000

LOADING = 3 GRAVITY AND BUOYANCY

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
41	101	431,452	1,429	-540,087	0,702	45627,012	178,229
41	102	-431,452	-1,429	540,087	-0,702	48348,195	70,381
42	102	430,768	0,171	535,152	-0,410	-48326,766	-17,745
42	103	-430,768	-0,171	-535,152	0,410	-44789,695	47,477
43	103	433,587	-0,800	539,410	0,665	-45547,277	-99,588
43	105	-433,587	0,800	-539,410	-0,665	-48268,816	-39,560
44	105	435,702	-0,480	-535,678	-0,379	48251,199	-5,894
44	106	-435,702	0,480	535,678	0,379	44971,457	-77,715
45	101	419,505	0,855	-535,239	-0,395	44804,020	129,562
45	104	-419,505	-0,855	535,239	0,395	48286,570	19,135
46	104	420,473	0,882	539,797	0,614	-48302,559	36,955
46	106	-420,473	-0,882	-539,797	-0,614	-45636,824	116,525
47	102	0,543	0,330	0,270	-0,014	-20,739	28,126
47	104	-0,543	-0,330	-0,270	0,014	-26,166	29,272
48	102	0,874	-0,268	0,169	-0,026	-22,030	-24,510
48	105	-0,874	0,268	-0,169	0,026	-7,376	-22,145
49	104	-0,321	-0,288	-0,193	-0,013	5,784	-26,818

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
49	105	0.321	0.288	0.193	0.013	27.785	-23.309
50	201	-572.697	0.778	-540.953	0.394	46626.211	107.827
50	202	572.697	-0.778	540.953	-0.394	47499.684	27.542
51	202	-573.171	0.285	534.276	-0.114	-47478.145	6.821
51	203	573.171	-0.285	-534.276	0.114	-45485.840	42.737
52	203	-369.112	0.165	539.259	0.408	-46354.805	0.474
52	205	369.112	-0.165	-539.259	-0.408	-47434.992	28.231
53	205	-368.387	-0.821	-535.809	-0.030	47412.168	-51.366
53	206	368.387	0.821	535.809	0.030	45833.242	-91.446
54	201	-417.112	1.271	-534.891	-0.043	45658.352	154.381
54	204	417.112	-1.271	534.891	0.043	47371.688	66.637
55	204	-415.646	0.066	540.176	0.515	-47391.465	-22.125
55	206	415.846	-0.066	-540.176	-0.315	-46613.852	55.545
56	202	0.115	0.259	0.291	-0.014	-21.195	20.809
56	204	-0.115	-0.259	-0.291	0.014	-29.390	24.170
57	202	0.383	-0.135	0.201	-0.027	-21.790	-13.553
57	205	-0.383	0.135	-0.201	0.027	-13.090	-9.852
58	204	-1.634	-0.193	-0.245	-0.020	10.128	-20.342
58	205	1.634	0.193	0.245	0.020	32.471	-13.283
59	201	289.638	1.697	8.269	186.672	-1399.242	305.664
59	303	-289.638	-1.697	-8.269	-186.672	-1840.405	359.245
60	203	-12.707	-5.444	-3.279	204.821	789.966	-567.862
60	306	12.707	5.444	3.279	-204.821	494.477	-781.457
61	206	42.626	1.298	-5.352	72.574	941.948	350.660
61	301	-42.626	-1.298	5.352	-72.574	1154.552	157.977
62	301	-114.342	2.723	4.797	11.277	-376.496	590.257
62	303	114.342	-2.723	-4.797	-11.277	-1292.979	357.222
63	303	-19.386	-1.068	5.522	-60.057	-969.693	-148.614
63	306	19.386	1.068	-5.522	60.057	-255.891	-223.079
64	301	66.936	3.375	1.241	45.848	114.509	666.413
64	306	-66.936	-3.375	-1.241	-45.848	-546.248	507.830
65	501	5429.195	37.476	-21.106	353.254	1696.220	4183.664
65	502	-5429.195	-37.476	21.106	-353.254	2140.820	2629.500
66	502	5430.199	-25.378	2.972	433.407	-1803.448	-2282.585
66	503	-5430.199	25.378	-2.972	-433.407	1263.114	-2331.158
67	503	4543.601	-32.112	21.347	903.872	-2055.242	-3042.110
67	505	-4543.601	32.112	-21.347	-903.872	-1825.583	-2795.846
68	505	4540.355	17.477	-0.444	297.382	1287.385	2010.325
68	506	-4540.355	-17.477	0.444	-297.382	-1206.653	1166.951
69	501	3854.650	-21.365	-12.590	100.418	743.874	-1130.808
69	504	-3854.650	21.365	12.590	-100.418	1545.020	-2753.203
70	504	3847.358	38.713	11.069	451.629	-1578.968	3210.604
70	506	-3847.358	-38.713	-11.069	-451.629	-433.254	3827.344
71	502	41.964	1.520	1.994	46.101	-151.883	121.347

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
71	504	-41,964	-1,520	-1,994	-46,101	-210,547	155,040
72	502	31,632	-3,283	1,090	-233,762	-197,818	-225,568
72	505	-31,632	3,283	-1,090	233,762	-0,273	-371,211
73	501	1858,656	2,897	31,130	2181,216	-947,153	96,668
73	507	-1858,656	-2,897	-31,130	-2181,216	-0,786	-8,449
74	507	-1854,755	0,0	0,0	-2181,233	0,0	0,0
74	510	1854,755	0,0	0,0	2181,233	0,0	0,0
75	505	333,807	2,347	-25,223	18207,699	774,641	0,952
75	508	-333,807	-2,347	25,223	-18207,699	-6,564	70,528
76	508	-329,873	0,0	0,0	-18207,840	0,0	0,0
76	511	329,873	0,0	0,0	18207,840	0,0	0,0
77	506	1986,685	-31,734	-0,000	-639,133	2,490	-964,735
77	509	-1986,685	31,734	0,000	639,133	-2,490	0,000
78	509	-1982,963	0,0	0,0	639,138	0,0	0,0
78	512	1982,963	0,0	0,0	-639,158	0,0	0,0
79	501	-136,377	-0,841	1703,880	-65,007	-41808,445	-51,348
79	513	136,377	0,841	-1703,880	65,007	-19388,109	1,166
80	503	-137,381	-5,005	-1714,931	160,118	42247,281	-300,512
80	514	137,381	5,005	1714,931	-160,118	19346,168	120,813
81	506	-136,073	1,874	1667,626	22,146	-41027,109	151,638
81	515	136,073	-1,874	-1667,626	-22,146	-19007,445	-64,189
82	513	-762,581	67,620	-118,435	1,166	16810,066	9660,469
82	651	762,581	-67,620	118,435	-1,166	8771,875	8945,477
83	514	-773,632	64,521	121,390	-120,813	-16821,441	9557,145
83	653	773,632	-64,521	-121,390	120,813	-9398,734	8579,453
84	515	-726,099	-136,073	-1,874	-64,189	22,146	-19007,445
84	656	726,099	136,073	1,874	64,189	582,545	-10344,418
85	601	-593,057	-146,196	1499,469	-15976,484	-66757,750	-6209,230
85	611	593,057	146,196	-1499,469	15976,484	-41204,012	-4316,844
86	603	-587,690	158,571	1487,990	15732,461	-66139,438	6850,309
86	613	587,690	-158,571	-1487,990	-15732,461	-40995,848	4586,777
87	651	592,908	-354,304	2088,731	-12568,625	-81358,063	-13150,465
87	661	-592,908	354,304	-2088,731	12568,625	-43965,801	-8107,777
88	653	587,639	341,929	2089,155	12479,527	-81487,375	12705,926
88	663	-587,639	-341,929	-2089,155	-12479,527	-43861,914	7809,809
89	611	867,830	13,045	-726,339	-756,844	67351,563	1201,174
89	612	-867,830	-13,045	726,339	756,844	72212,688	1305,085
90	612	875,187	-11,134	720,059	849,362	-71647,250	-1173,430
90	613	-875,187	11,134	-720,059	-849,362	-66690,438	-965,717
91	661	-367,350	-12,896	-550,184	-891,290	57109,676	-1584,786
91	662	367,350	12,896	550,184	891,290	60015,527	-1160,603
92	662	-374,687	11,283	545,409	984,384	-59519,602	1028,948
92	663	374,687	-11,283	-545,409	-984,384	-56587,078	1373,039
93	611	485,301	580,011	659,131	309,894	-51355,102	80820,652

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
93	661	-485,301	-580,011	-659,131	-309,894	-44541,047	45564,516
94	612	-213,018	24,180	7,357	-131,655	-565,415	1606,207
94	662	213,018	-24,180	-7,357	131,655	-493,928	1875,673
95	613	489,731	576,556	-653,422	-252,664	50958,008	40525,109
95	663	-489,731	-576,556	653,422	252,664	44107,547	45357,246
96	501	-83,582	-4,455	-9,616	542,398	1720,191	-968,833
96	703	83,582	4,455	9,616	-542,398	3146,875	-1286,229
97	503	-179,774	15,553	2,771	750,838	323,744	4013,239
97	706	179,774	-15,553	-2,771	-750,838	-1726,258	2846,831
98	506	905,556	-7,207	6,137	426,910	-1707,591	-669,546
98	701	-905,556	7,207	-6,137	-426,910	-1398,658	-2978,412
99	701	1483,514	8,922	-12,558	108,553	1437,291	997,158
99	702	-1483,514	-8,922	12,558	-108,553	1389,836	1011,258
100	504	26,008	-5,942	-2,476	-45,721	-141,982	-502,362
100	505	-26,008	5,942	2,476	45,721	592,050	-414,310
101	702	1486,826	-13,813	9,775	65,859	-1292,297	-1307,813
101	703	-1486,826	13,813	-9,775	-65,859	-907,844	-1801,710
102	703	2598,656	2,579	12,114	123,034	-1360,125	567,872
102	705	-2598,656	-2,579	-12,114	-123,034	-1366,106	12,588
103	705	2609,587	5,542	-10,301	70,410	1277,813	430,014
103	706	-2609,587	-5,542	10,301	-70,410	1041,501	817,713
104	701	2107,974	-2,515	-10,211	66,818	1003,684	-203,670
104	704	-2107,974	2,515	10,211	-66,818	1294,360	-362,429
105	704	2117,377	3,520	12,314	84,313	-1365,289	473,104
105	706	-2117,377	-3,520	-12,314	-84,313	-1407,364	519,397
106	702	15,764	0,127	0,347	-22,759	-26,989	-52,482
106	704	-15,764	-0,127	-0,347	22,759	-51,040	81,077
107	702	11,043	2,379	0,461	-28,359	-79,527	244,074
107	705	-11,043	-2,379	-0,461	28,359	-24,268	291,385
108	704	-5,765	0,540	-0,459	-14,752	25,821	-29,594
108	705	5,765	-0,540	0,459	14,752	77,594	151,216
109	701	2819,847	3,244	34,853	3365,340	-1060,103	111,806
109	707	-2819,847	-3,244	-34,853	-3365,340	-1,213	-13,036
110	707	-2815,951	0,0	0,0	-3365,366	0,0	0,0
110	710	2815,951	0,0	0,0	3365,366	0,0	0,0
111	703	2577,615	5,084	-33,140	9037,879	1012,411	58,907
111	708	-2577,615	-5,084	33,140	-9037,879	-3,258	35,008
112	708	-2575,696	0,0	0,0	-9037,949	0,0	0,0
112	711	2575,696	0,0	0,0	9037,949	0,0	0,0
113	706	2916,133	-55,355	-0,000	4483,395	-17,470	-1074,813
113	709	-2916,133	55,355	0,000	-4483,395	17,470	0,000
114	709	-2912,218	0,0	0,0	-4483,430	0,0	0,0
114	712	2912,218	0,0	0,0	4483,430	0,0	0,0
115	701	655,465	-0,490	0,800	-29,991	-27,921	347,758

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
115	806	-655,465	0,490	-0,800	29,991	-453,624	-642,743
116	703	157,614	5,502	-2,394	-88,604	357,271	2144,063
116	801	-157,614	-5,502	2,394	88,604	1083,416	1167,641
117	701	-99,459	1,081	-2,065	346,083	1077,109	308,707
117	803	99,459	-1,081	2,065	-346,083	165,861	342,207
118	801	2312,184	11,974	388,572	33,962	-52219,410	1834,405
118	802	-2312,184	-11,974	-388,572	-33,962	-53992,348	1440,158
119	802	2311,011	-11,502	-391,242	121,011	54044,066	-1417,003
119	803	-2311,011	11,502	391,242	-121,011	52952,824	-1728,562
120	805	2254,735	-5,553	-390,514	-68,026	52918,316	-557,092
120	805	-2254,735	5,553	390,514	68,026	53881,000	-961,509
121	805	2262,101	7,998	388,597	246,749	-53884,309	1041,756
121	806	-2262,101	-7,998	-388,597	-246,749	-52414,086	1146,122
122	801	2317,590	-4,717	391,958	337,879	-53207,844	-429,619
122	804	-2317,590	4,717	-391,958	-337,879	-55986,367	-860,375
123	804	2323,833	6,856	-386,775	-21,776	53860,566	925,197
123	806	-2323,833	-6,856	386,775	21,776	51939,406	950,181
124	802	12,305	0,328	-0,079	-56,076	-98,601	38,333
124	804	-12,305	-0,328	0,079	56,076	120,144	51,255
125	802	14,482	0,231	0,443	25,109	48,807	15,178
125	805	-14,482	-0,231	-0,443	-25,109	-169,870	48,039
126	804	0,266	0,068	-0,371	-15,460	247,967	-13,567
126	805	-0,266	-0,068	0,371	15,460	-146,466	32,208
127	801	3697,059	5,560	38,251	4762,453	-1163,071	126,847
127	807	-3697,059	-5,560	-38,251	-4762,453	-1,717	-18,447
128	807	-3693,150	0,0	0,0	-4762,488	0,0	0,0
128	810	3693,150	0,0	0,0	4762,488	0,0	0,0
129	803	3807,546	5,600	-38,679	5584,969	1179,834	87,979
129	808	-3807,546	-3,600	38,679	-5584,969	-2,013	21,633
130	808	-3803,638	0,0	0,0	-5585,012	0,0	0,0
130	811	3803,638	0,0	0,0	5585,012	0,0	0,0
131	806	3700,414	-38,411	0,000	4076,352	-15,884	-1167,717
131	809	-3700,414	38,411	-0,000	-4076,352	15,884	-0,000
132	809	-3696,505	0,0	0,0	-4076,382	0,0	0,0
132	812	3696,505	0,0	0,0	4076,382	0,0	0,0
133	801	172,897	2,444	-1,956	231,235	1875,345	688,681
133	903	-172,897	-2,444	1,956	-231,235	-476,089	1059,451
134	803	621,784	-0,938	1,072	96,780	-857,314	732,878
134	906	-621,784	0,938	-1,072	-96,780	90,595	-1403,927
135	806	-188,176	-5,267	0,635	168,715	-1330,182	-1570,553
135	901	188,176	5,267	-0,635	-168,715	875,750	-765,755
136	901	2394,576	4,797	467,468	34,223	-75821,875	650,455
136	902	-2394,576	-4,797	-467,468	-34,223	-77993,625	927,989
137	902	2394,415	-8,534	-470,068	275,205	78082,313	-1120,811

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
137	903	-2394.415	8.534	470.068	-275.205	76588.813	-1687.296
138	903	2149.699	-3.260	-468.404	-31.388	76124.563	-213.087
138	905	-2149.699	3.260	468.404	31.388	77967.688	-859.381
139	905	2153.137	8.394	468.675	338.331	-78020.625	1138.438
139	906	-2153.137	-8.394	-468.675	-338.331	-76208.750	1623.860
140	901	2445.122	-6.527	470.722	347.594	-76806.313	-1239.385
140	904	-2445.122	6.527	-470.722	-347.594	-78048.438	-907.924
141	904	2444.597	2.600	-466.307	-35.734	77931.625	657.670
141	906	-2444.597	-2.600	466.307	35.734	75519.000	198.063
142	902	6.371	-0.612	0.117	-46.449	-201.293	-91.147
142	904	-6.371	0.612	-0.117	46.449	162.793	-110.213
143	902	8.971	0.704	0.449	0.267	103.967	101.675
143	905	-8.971	-0.704	-0.449	-0.267	-251.516	129.881
144	904	4.635	0.879	-0.307	-20.112	280.956	140.040
144	905	-4.635	-0.879	0.307	20.112	-179.944	149.178
145	901	4427.770	3.823	41.081	5309.719	-1249.063	136.987
145	907	-4427.770	-3.823	-41.081	-5309.719	-1.914	-20.567
146	907	-4423.867	0.0	0.0	-5309.762	0.0	0.0
146	910	4423.867	0.0	0.0	5309.762	0.0	0.0
147	903	4432.535	3.825	-41.100	-12682.637	1246.968	165.598
147	908	-4432.535	-3.825	41.100	12682.637	4.572	-49.127
148	908	-4428.633	0.0	0.0	12682.734	0.0	0.0
148	911	4428.633	0.0	0.0	-12682.734	0.0	0.0
149	906	4146.469	-40.149	0.000	-1685.396	6.567	-1220.556
149	909	-4146.469	40.149	-0.000	1685.396	-6.567	-0.000
150	909	-4142.563	0.0	0.0	1685.409	0.0	0.0
150	912	4142.563	0.0	0.0	-1685.409	0.0	0.0
151	901	851.675	1.532	-6.728	-208.255	2164.025	527.588
151	1002	-851.675	-1.532	6.728	208.255	1244.996	248.727
152	903	966.817	3.488	5.748	150.730	-1796.963	1307.966
152	1002	-966.817	-3.488	-5.748	-150.730	-1115.475	459.257
153	903	1180.759	4.609	4.673	-262.048	-1499.179	1434.064
153	1005	-1180.759	-4.609	-4.673	262.048	-868.686	901.300
154	906	633.918	-6.346	-0.757	177.768	111.791	-2178.363
154	1005	-633.918	6.346	0.757	-177.768	271.901	-1037.284
155	901	1259.615	2.892	-6.195	194.852	2051.737	748.075
155	1004	-1259.615	-2.892	6.195	-194.852	1087.482	717.499
156	906	557.276	-5.778	3.296	-228.949	-1052.010	-1935.088
156	1004	-557.276	5.778	-3.296	228.949	-617.812	-992.699
157	1001	781.494	0.791	10.381	137.648	-2425.283	20.760
157	1002	-781.494	-0.791	-10.381	-137.648	-1565.848	283.452
158	1002	707.097	-3.490	-10.176	-89.828	1487.530	-431.103
158	1003	-707.097	3.490	10.176	89.828	2424.992	-910.759
159	1003	693.037	0.257	-12.617	-2.210	3005.112	511.228

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
159	1005	-695.037	-0.257	12.617	2.210	1848.291	-212.225
160	1005	1050.837	5.166	10.581	-7.212	-1621.267	406.088
160	1006	-1050.837	-5.166	-10.581	7.212	-2370.203	811.089
161	1001	669.529	-2.523	12.037	6.863	-2970.581	-569.481
161	1004	-669.529	2.523	-12.037	-6.863	-1657.797	-323.677
162	1004	1124.916	0.653	-9.985	49.348	1588.887	297.671
162	1006	-1124.916	-0.655	9.985	-49.548	2250.564	-46.650
163	1002	-61.215	-0.538	-0.349	-29.987	209.100	-106.357
163	1004	61.215	0.538	0.349	29.987	-75.080	-100.387
164	1002	-61.074	0.709	0.615	10.563	-269.724	128.467
164	1005	61.074	-0.709	-0.615	-10.365	53.418	143.981
165	1004	-62.657	0.661	0.009	-3.243	-104.785	116.265
165	1005	62.657	-0.661	-0.009	3.243	101.508	137.751
166	1001	625.118	2.452	26.341	9818.684	-798.597	112.650
166	1007	-625.118	-2.452	-26.341	-9818.684	-3.536	-37.996
167	1007	-619.186	0.0	0.0	-9818.758	0.0	0.0
167	1010	619.186	0.0	0.0	9818.758	0.0	0.0
168	1003	582.651	2.437	-26.185	-5143.012	795.512	94.112
168	1008	-582.651	-2.437	26.185	5143.012	1.852	-19.902
169	1008	-578.718	0.0	0.0	5143.051	0.0	0.0
169	1011	578.718	0.0	0.0	-5143.051	0.0	0.0
170	1006	1250.556	-28.860	-0.000	4728.297	-18.406	-877.367
170	1009	-1250.556	28.860	0.000	-4728.297	18.406	-0.000
171	1009	-1246.628	0.0	0.0	-4728.332	0.0	0.0
171	1012	1246.628	0.0	0.0	4728.332	0.0	0.0
172	101	4130.352	-365.105	640.557	-307.791	-68038.500	-38795.223
172	201	-4130.352	365.105	-640.557	307.791	-47261.645	-26923.742
173	103	4129.586	-374.871	-648.350	-147.065	67572.750	-39439.234
173	203	-4129.586	374.871	648.350	147.065	49130.219	-28037.535
174	106	4130.773	739.976	7.793	-194.240	332.836	78472.625
174	206	-4130.773	-739.976	-7.793	194.240	-1735.649	54723.063
175	201	11519.996	-7.039	111.574	-927.257	-20804.516	-12586.000
175	301	-11519.996	7.039	-111.574	927.257	721.174	11318.930
176	203	11658.871	-45.080	115.762	-241.250	18880.504	-11561.488
176	303	-11658.871	45.080	-115.762	241.250	-39717.633	3607.045
177	206	11637.102	92.354	16.508	-629.775	1580.005	24554.570
177	306	-11637.102	-92.354	-16.508	629.773	-4551.402	-7930.871
178	301	21265.105	-101.371	43.561	-2679.251	-1255.290	-12082.445
178	401	-21265.105	101.371	-43.561	2679.251	-13662.676	-22586.582
179	303	21529.953	-21.339	-392.310	-1063.738	43367.871	-4740.957
179	403	-21529.953	21.339	392.310	1063.738	90802.813	-2557.990
180	306	21358.148	122.710	-28.972	-1536.248	4781.781	9046.539
180	406	-21358.148	-122.710	28.972	1536.248	5126.586	32920.316
181	401	-33968.375	2141.225	-3989.198	-612.542	75507.500	42002.758

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
181	501	33968.375	-2141.225	3989.198	612.542	142903.563	75230.625
182	403	-34130.695	3194.901	2111.667	3294.876	30489.313	76859.250
182	503	34130.695	-3194.901	-2111.667	-3294.876	-148577.188	101824.813
183	406	-31135.113	-4351.313	-24.884	-2371.845	-629.361	-90158.875
183	506	31135.113	4351.313	24.884	2371.845	1991.620	-148053.188
184	501	-28857.027	88.903	1166.019	-2890.797	-108763.250	-54683.484
184	601	28857.027	-88.903	-1166.019	2890.797	23663.906	61171.887
185	503	-28439.145	-97.221	-1132.110	-5361.484	117804.188	-71564.563
185	603	28439.145	97.221	1132.110	5361.484	-35179.566	64469.129
186	506	-24160.992	654.819	-61.997	-4115.348	1977.871	106548.125
186	656	24160.992	-654.819	61.997	4115.348	11598.168	37043.738
187	601	-25271.445	-45.188	536.415	1741.073	-39312.559	5792.719
187	651	25271.445	45.188	-536.415	-1741.073	-38994.770	-12389.402
188	603	-22863.598	-226.758	-516.065	-9250.199	50644.750	1969.028
188	653	22863.598	226.758	516.065	9250.199	24691.906	-35071.816
189	651	-16950.246	1147.154	-121.999	1535.513	17563.591	89891.958
189	701	16950.246	-1147.154	121.999	-1535.513	-7172.523	7813.348
190	653	-16554.535	956.203	156.579	-9772.262	-2777.543	113171.500
190	703	16554.535	-956.203	-156.579	9772.262	-10558.653	-31729.891
191	656	-18850.180	-362.949	-65.870	-4247.066	-11965.000	-26659.316
191	706	18850.180	362.949	65.870	4247.066	17402.543	-4251.548
192	701	-12169.449	-20.262	-115.330	-157.592	7349.012	-7636.191
192	801	12169.449	20.262	115.330	157.592	31933.676	734.790
193	703	-11956.617	229.702	4.294	-3878.154	12567.629	38909.422
193	803	11956.617	-229.702	-4.294	3878.154	-14030.207	39329.859
194	706	-13866.207	-80.648	113.183	-2554.880	-20084.629	2480.498
194	806	13866.207	80.648	-113.183	2554.880	-18468.051	-29950.820
195	801	-6891.430	216.852	-269.579	-1155.527	47189.234	40834.352
195	901	6891.430	-216.852	269.579	1133.527	57685.133	43590.246
196	803	-7052.199	79.782	547.255	-2749.807	-65446.402	10053.676
196	903	7052.199	-79.782	-547.255	2749.807	-71746.500	21006.805
197	806	-8104.992	-338.905	-75.770	-2388.764	16166.227	-58989.906
197	906	8104.992	338.905	75.770	2388.764	13531.645	-72949.125
198	901	-2974.878	29.931	-167.525	-615.344	55698.824	17183.980
198	1001	2974.878	-29.931	167.525	615.344	9518.914	-5531.605
199	903	-2967.234	74.982	138.551	-1140.380	-46657.672	30427.918
199	1003	2967.234	-74.982	-138.551	1140.380	-7080.383	-1237.243
200	906	-3081.145	-151.724	39.213	-867.042	-10491.613	-54160.223
200	1006	3081.145	151.724	-39.213	867.042	-4774.516	-4907.458
201	401	61740.391	67.017	28.267	44.743	-61843.789	-19266.766
201	510	-61740.391	-67.017	-28.267	-44.743	60292.789	22943.945
202	403	61627.137	-977.121	4889.828	2352.414	-121152.125	-74649.875
202	511	-61627.137	977.121	-4889.828	-2352.414	-152882.375	19894.344
203	406	59009.125	-148.702	-4.088	15.197	-4174.910	57258.598

MEMBER FORCES

MEMBER	JOINT	FORCE AXIAL	FORCE SHEAR Y	FORCE SHEAR Z	MOMENT TORSIONAL	MOMENT BENDING Y	MOMENT BENDING Z
203	512	-59009.125	148.702	4.088	-15.197	4399.191	-65396.879
204	510	71428.438	-115.702	220.249	-26.534	-61370.883	-21046.129
204	710	-71428.438	115.702	-220.249	26.534	-5615.207	-14143.066
205	511	71520.938	-282.480	-522.061	41.326	145708.875	-37181.012
205	711	-71520.938	282.480	522.061	-41.326	15069.332	-48731.805
206	512	68696.438	189.163	-4.088	13.788	-5038.556	65396.852
206	712	-68696.438	-189.163	4.088	-13.788	6281.695	-7863.953
207	710	90064.938	29.799	9.422	-37.920	5951.995	17069.211
207	810	-90064.938	-29.799	-9.422	37.920	-7161.148	-6919.422
208	711	90157.875	81.499	73.222	51.284	-19552.727	40874.492
208	811	-90157.875	-81.499	-73.222	-51.284	-5407.699	-13115.031
209	712	87332.438	25.806	-4.088	9.229	-1798.267	7863.953
209	812	-87332.438	-25.806	4.088	-9.229	3190.746	244.998
210	810	112421.438	70.695	-92.410	-37.466	4808.871	11059.797
210	910	-112421.438	-70.695	92.410	37.466	31168.270	16463.238
211	811	112514.250	67.829	79.061	36.701	2647.918	8259.434
211	911	-112514.250	-67.829	-79.061	-36.701	-33428.023	18147.500
212	812	109687.938	-48.782	-4.088	3.410	885.630	-244.992
212	912	-109687.938	48.782	4.088	-3.410	705.889	-18746.383
213	910	134843.438	-262.587	539.460	-37.260	-33790.910	-11847.426
213	1010	-134843.438	262.387	-539.460	37.260	-176222.000	-90300.375
214	911	134936.250	-267.607	-556.980	42.825	39693.012	-7121.309
214	1011	-134936.250	267.607	556.980	-42.825	177140.188	-97058.750
215	912	132108.938	351.353	-4.088	5.241	-2391.297	18746.313
215	1012	-132108.938	-351.353	4.088	-5.241	3982.815	118038.813
216	1010	148380.625	541.922	-939.692	0.000	171374.375	98831.938
216	1110	-148380.625	-541.922	939.692	-0.000	0.000	0.000
217	1011	148473.438	556.688	957.393	-0.000	-174602.563	101524.938
217	1111	-148473.438	-556.688	-957.393	0.000	0.000	0.000
216	1012	145645.563	-647.269	-4.088	-0.000	745.515	-118038.750
216	1112	-145645.563	647.269	4.088	0.000	-0.000	0.000

RESULTANT JOINT LOADS - SUPPORTS

JOINT		FORCE X FORCE	FORCE Y FORCE	FORCE Z FORCE	MOMENT X MOMENT	MOMENT Y MOMENT	MOMENT Z MOMENT
1110	GLOBAL	-20262.848	11664.078	149604.500	0.000	0.000	0.000
1111	GLOBAL	20250.762	11656.996	149699.813	0.000	0.000	-0.000
1112	GLOBAL	4.088	-23321.078	146841.063	0.000	-0.000	-0.000
		0.002	-0.004	446,145.376			

RESULTANT JOINT DISPLACEMENTS = SUPPORTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1110	GLOBAL	0.0	0.0	0.0	-0.000	-0.000	0.000
1111	GLOBAL	0.0	0.0	0.0	-0.000	0.000	0.000
1112	GLOBAL	0.0	0.0	0.0	0.000	-0.000	0.000

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1010	GLOBAL	-0.005	0.003	-0.008	-0.000	-0.000	0.000
1007	GLOBAL	0.000	0.003	-0.034	-0.000	-0.000	0.000
910	GLOBAL	-0.004	0.004	-0.016	-0.000	0.000	0.000
1001	GLOBAL	0.000	0.003	-0.035	-0.000	-0.000	0.000
907	GLOBAL	-0.000	0.003	-0.035	0.000	0.000	0.000
810	GLOBAL	-0.002	0.004	-0.021	-0.000	0.000	0.000
1002	GLOBAL	0.001	0.002	-0.034	-0.000	-0.000	0.000
1004	GLOBAL	-0.000	0.002	-0.034	0.000	-0.000	0.000
901	GLOBAL	-0.000	0.003	-0.034	0.000	0.000	0.000
807	GLOBAL	0.000	0.004	-0.033	0.000	0.000	0.000
710	GLOBAL	-0.001	0.003	-0.025	0.000	0.000	0.000
1003	GLOBAL	0.001	0.001	-0.035	-0.000	0.000	0.000
1005	GLOBAL	-0.000	0.002	-0.034	0.000	0.000	0.000
903	GLOBAL	0.001	0.002	-0.034	0.000	-0.000	0.000
1006	GLOBAL	-0.001	0.001	-0.034	0.000	-0.000	0.000
906	GLOBAL	-0.001	0.001	-0.034	-0.000	-0.000	0.000
902	GLOBAL	0.001	0.002	0.011	0.000	-0.000	0.000
904	GLOBAL	-0.000	0.002	0.012	0.000	0.000	0.000
806	GLOBAL	-0.002	0.001	-0.032	-0.000	-0.000	0.000
801	GLOBAL	0.000	0.004	-0.033	0.000	0.000	0.000
707	GLOBAL	0.000	0.003	-0.031	-0.000	-0.000	0.000
510	GLOBAL	-0.000	0.002	-0.028	0.000	-0.000	0.000
1008	GLOBAL	0.001	0.001	-0.035	-0.000	0.000	0.000
908	GLOBAL	0.002	0.001	-0.035	0.000	-0.000	0.000
905	GLOBAL	-0.000	0.001	0.012	-0.000	-0.000	0.000
803	GLOBAL	0.002	0.000	-0.033	0.000	-0.000	0.000
1009	GLOBAL	-0.001	0.001	-0.034	0.000	-0.000	0.000
909	GLOBAL	-0.001	0.001	-0.034	-0.000	-0.000	0.000
809	GLOBAL	-0.002	0.001	-0.032	-0.000	-0.000	0.000
805	GLOBAL	-0.000	0.001	-0.011	0.000	-0.000	0.000
804	GLOBAL	-0.000	0.003	-0.011	0.000	0.000	0.000
706	GLOBAL	-0.001	0.000	-0.030	0.000	-0.000	0.000

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
701	GLOBAL	0.000	0.003	-0.031	-0.000	-0.000	0.000
802	GLOBAL	0.001	0.002	-0.011	0.000	-0.000	0.000
703	GLOBAL	0.002	0.001	-0.031	0.000	0.000	0.000
507	GLOBAL	0.000	0.003	-0.029	0.000	-0.000	0.000
401	GLOBAL	-0.000	0.002	-0.029	-0.000	-0.000	0.000
1011	GLOBAL	0.005	0.003	-0.008	-0.000	0.000	0.000
911	GLOBAL	0.004	0.004	-0.016	0.000	-0.000	0.000
808	GLOBAL	0.002	0.000	-0.033	0.000	-0.000	0.000
1012	GLOBAL	-0.000	-0.003	-0.007	0.000	-0.000	0.000
912	GLOBAL	-0.000	-0.003	-0.015	-0.000	-0.000	0.000
812	GLOBAL	-0.001	-0.001	-0.020	0.000	-0.000	0.000
709	GLOBAL	-0.002	0.000	-0.030	0.000	-0.000	0.000
656	GLOBAL	-0.002	-0.000	-0.030	0.000	-0.000	0.000
705	GLOBAL	-0.000	0.001	-0.032	0.000	0.000	0.000
704	GLOBAL	-0.000	0.002	-0.032	0.000	-0.000	0.000
503	GLOBAL	0.003	-0.002	-0.029	0.000	0.000	0.000
702	GLOBAL	0.001	0.001	-0.032	0.000	-0.000	0.000
651	GLOBAL	0.000	0.003	-0.031	0.000	0.000	0.000
506	GLOBAL	-0.002	-0.001	-0.028	0.000	-0.000	0.000
708	GLOBAL	0.002	0.001	-0.031	0.000	0.000	0.000
653	GLOBAL	0.002	0.000	-0.031	0.000	0.000	0.000
501	GLOBAL	0.000	0.002	-0.029	0.000	-0.000	0.000
301	GLOBAL	-0.000	0.000	-0.031	0.000	0.000	0.000
811	GLOBAL	0.003	0.003	-0.021	0.000	0.000	0.000
712	GLOBAL	-0.001	-0.001	-0.024	0.000	-0.000	0.000
515	GLOBAL	-0.003	-0.001	-0.029	-0.000	-0.000	0.000
508	GLOBAL	0.003	-0.002	-0.029	0.000	0.000	0.000
514	GLOBAL	0.003	-0.002	-0.030	0.000	-0.000	0.000
403	GLOBAL	0.004	-0.002	-0.029	0.000	0.000	0.000
603	GLOBAL	0.002	-0.001	-0.030	0.000	0.000	0.000
502	GLOBAL	0.002	0.000	-0.030	0.000	-0.000	0.000
505	GLOBAL	-0.000	-0.001	-0.030	0.000	0.000	0.000
513	GLOBAL	0.000	0.003	-0.030	0.000	0.000	0.000
661	GLOBAL	0.002	0.003	-0.038	0.000	-0.000	0.000
601	GLOBAL	0.000	0.003	-0.030	0.000	0.000	0.000
509	GLOBAL	-0.003	-0.001	-0.028	0.000	-0.000	0.000
406	GLOBAL	-0.002	-0.002	-0.028	0.000	-0.000	0.000
504	GLOBAL	-0.000	0.001	-0.029	0.000	-0.000	0.000
711	GLOBAL	0.002	0.002	-0.025	0.000	0.000	0.000
663	GLOBAL	0.001	0.001	-0.039	0.000	0.000	-0.000
206	GLOBAL	-0.005	-0.002	-0.032	0.000	-0.000	0.000
303	GLOBAL	-0.000	-0.004	-0.032	0.000	-0.000	0.000
306	GLOBAL	-0.004	-0.002	-0.031	-0.000	-0.000	0.000
201	GLOBAL	-0.000	-0.000	-0.032	-0.000	-0.000	0.000

RESULTANT JOINT DISPLACEMENTS - FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
512	GLOBAL	-0.002	-0.001	-0.028	0.000	-0.000	0.000
511	GLOBAL	0.003	-0.001	-0.028	0.000	0.000	0.000
613	GLOBAL	0.002	-0.001	-0.039	0.000	0.000	0.000
662	GLOBAL	0.002	0.004	-0.188	0.000	0.000	0.000
611	GLOBAL	0.001	0.002	-0.038	0.000	-0.000	0.000
106	GLOBAL	-0.006	-0.003	-0.032	0.000	-0.000	0.000
205	GLOBAL	-0.003	-0.004	-0.042	0.000	-0.000	0.000
204	GLOBAL	-0.003	-0.001	-0.042	0.000	-0.000	0.000
203	GLOBAL	-0.001	-0.005	-0.033	0.000	0.000	0.000
101	GLOBAL	-0.001	-0.000	-0.032	-0.000	-0.000	0.000
202	GLOBAL	-0.001	-0.003	-0.043	0.000	-0.000	0.000
612	GLOBAL	0.002	-0.002	-0.188	0.000	0.000	0.000
105	GLOBAL	-0.003	-0.004	-0.043	0.000	-0.000	0.000
104	GLOBAL	-0.003	-0.002	-0.043	0.000	-0.000	0.000
103	GLOBAL	-0.001	-0.006	-0.033	-0.000	0.000	0.000
102	GLOBAL	-0.001	-0.003	-0.043	0.000	-0.000	0.000

LOADING = 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
41	101	-78.202	0.345	-5.482	1.159	757.948	54.150
41	102	78.202	-0.345	5.482	-1.159	195.908	5.815
42	102	-78.479	1.137	-4.421	-1.164	-195.049	45.524
42	103	78.479	-1.137	4.421	1.164	964.241	152.242
43	103	8.605	-1.029	-29.408	-0.184	5262.074	-144.790
43	105	-8.605	1.029	29.408	0.184	-147.257	-34.159
44	105	7.206	-0.823	-28.660	0.899	203.157	-22.523
44	106	-7.206	0.823	28.660	-0.899	4784.547	-120.749
45	101	80.796	0.378	55.571	0.817	-5436.734	56.015
45	104	-80.796	-0.378	-55.571	-0.817	-402.128	9.680
46	104	80.758	0.977	53.258	-0.400	269.422	38.870
46	106	-80.758	-0.977	-53.258	0.400	-6057.246	131.214
47	102	-0.206	0.274	0.755	-0.144	0.415	24.267
47	104	0.206	-0.274	-0.755	0.144	-131.796	23.352
48	102	-0.681	-0.321	-0.306	0.130	-2.110	-27.071
48	105	0.681	0.321	0.306	-0.130	55.311	-28.821
49	104	0.913	-0.305	-0.442	-0.061	133.319	-25.197

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
49	105	-0,913	0,505	0,442	0,061	-56,395	-27,861
50	201	-489,720	0,688	-4,328	0,918	749,255	77,103
50	202	489,720	-0,688	4,328	-0,918	3,875	42,524
51	202	-491,445	0,795	-3,474	-0,601	17,434	21,650
51	203	491,445	-0,795	3,474	0,601	587,015	116,639
52	203	-597,700	-0,936	-16,444	-0,154	3000,841	-104,981
52	205	597,700	0,936	16,444	0,154	-140,792	-57,808
53	205	-597,276	0,479	-15,942	0,543	182,151	58,818
53	206	597,276	-0,479	15,942	-0,543	2592,289	24,500
54	201	852,860	1,044	23,255	0,654	-3994,191	91,104
54	204	-852,860	-1,044	-23,255	-0,654	-50,406	90,493
55	204	852,369	-0,558	22,902	-0,056	-59,389	-72,680
55	206	-852,369	0,558	-22,902	0,056	-3926,254	-24,497
56	202	-1,361	0,517	0,746	-0,132	-20,446	55,219
56	204	1,361	-0,517	-0,746	0,132	-109,274	19,833
57	202	1,174	-0,208	-0,109	0,087	-22,074	-28,955
57	205	-1,174	0,208	0,109	-0,087	40,970	-7,288
58	204	0,067	0,059	-0,393	-0,041	110,065	2,020
58	205	-0,067	-0,059	0,393	0,041	-41,647	8,298
59	201	175,379	0,828	2,273	-260,393	-273,526	174,534
59	303	-175,379	-0,828	-2,273	260,393	-616,870	149,878
60	203	1881,909	-9,284	-8,727	253,517	1515,658	-1482,560
60	306	-1881,909	9,284	8,727	-253,517	1902,987	-2154,466
61	206	-1780,214	-6,762	8,136	296,908	-1368,687	-1027,169
61	301	1780,214	6,762	-8,136	-296,908	-1818,750	-1621,999
62	301	329,429	2,004	1,513	91,613	-93,284	200,273
62	303	-329,429	-2,004	-1,513	-91,613	-435,130	497,034
63	303	-1005,749	-1,518	-21,191	13,662	3580,382	-305,926
63	306	1005,749	1,518	21,191	-13,662	3793,096	-222,322
64	301	742,611	-2,033	25,218	96,692	-4335,559	-460,250
64	306	-742,611	2,033	-25,218	-96,692	-4441,074	-247,049
65	301	719,460	2,248	0,485	821,974	-229,276	-61,432
65	302	-719,460	-2,248	-0,485	-821,974	141,079	470,149
66	302	709,947	1,728	-5,731	-597,362	-41,301	-174,916
66	303	-709,947	-1,728	5,731	597,362	1083,154	489,002
67	303	558,441	-14,208	-16,127	-126,861	3401,044	-1483,388
67	305	-558,441	14,208	16,127	126,861	-469,124	-1099,566
68	305	552,906	12,551	-18,975	223,537	869,969	1220,853
68	306	-552,906	-12,551	18,975	-223,537	2579,673	1060,900
69	301	1737,509	-8,135	18,548	410,293	-3772,117	-1163,530
69	304	-1737,509	8,135	-18,548	-410,293	400,113	-315,361
70	304	1722,310	2,059	21,916	-19,055	-958,349	125,458
70	306	-1722,310	-2,059	-21,916	19,055	-3025,960	248,959
71	302	-7,072	0,585	-2,671	-346,219	583,586	131,324

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
71	504	7,672	-0,585	2,671	346,219	-98,053	-25,058
72	502	8,537	-1,042	3,545	290,969	-687,443	-163,909
72	505	-8,537	1,042	-3,545	-290,969	42,945	-25,542
73	501	615,240	0,222	2,383	5496,133	-70,589	28,043
73	507	-615,240	-0,222	-2,383	-5496,133	-1,981	-21,289
74	507	-615,245	0,0	0,0	-5496,176	0,0	0,0
74	510	615,245	0,0	0,0	5496,176	0,0	0,0
75	503	562,872	0,203	-2,180	-5727,695	64,528	28,365
75	508	-562,872	-0,203	2,180	5727,695	2,065	-22,186
76	508	-562,877	0,0	0,0	5727,738	0,0	0,0
76	511	562,877	0,0	0,0	-5727,738	0,0	0,0
77	506	335,562	-1,308	0,000	-1394,964	5,436	-59,750
77	509	-335,562	1,308	-0,000	1394,964	-5,436	-0,000
78	509	-335,565	0,0	0,0	1394,975	0,0	0,0
78	512	335,565	0,0	0,0	-1394,975	0,0	0,0
79	501	-5,524	2,063	50,474	-467,134	-1834,661	103,837
79	513	5,524	-2,063	-50,474	467,134	21,826	-29,731
80	503	-9,537	0,347	-102,204	478,724	3149,589	19,714
80	514	9,537	-0,347	102,204	-478,724	521,183	-7,245
81	506	-6,157	1,452	68,744	26,259	-1454,501	28,960
81	515	6,157	-1,452	-68,744	-26,259	-1020,269	23,313
82	513	-50,474	4,554	-3,746	-29,731	215,226	-415,172
82	651	50,474	-4,554	3,746	29,731	595,844	1398,775
83	514	-102,204	5,080	8,079	7,245	-690,927	-153,062
83	653	102,204	-5,080	-8,079	-7,245	-1054,154	1250,389
84	515	-68,744	-6,157	-1,452	23,313	26,259	-1020,269
84	656	68,744	6,157	1,452	-23,313	287,380	-309,739
85	601	0,245	13,790	15,287	67,751	-1079,428	1018,090
85	611	-0,245	-13,790	-15,287	-67,751	-21,223	-25,246
86	603	1,566	-10,429	12,786	-140,979	-929,040	-827,433
86	613	-1,566	10,429	-12,786	140,979	8,429	76,576
87	651	-0,191	26,800	-13,804	-38,575	718,923	1536,822
87	661	0,191	-26,800	13,804	38,575	109,320	71,156
88	653	-1,618	-30,161	-14,269	16,382	692,169	-1637,646
88	663	1,618	30,161	14,269	-16,382	163,972	-171,989
89	611	-14,630	0,105	-0,697	15,265	64,343	30,420
89	612	14,630	-0,105	0,697	-15,265	69,598	-10,274
90	612	-12,660	0,296	-0,996	11,150	82,269	44,290
90	613	12,660	-0,296	0,996	-11,150	109,041	12,497
91	661	-25,959	-0,157	-0,785	22,725	88,228	8,267
91	662	25,959	0,157	0,785	-22,725	78,954	-41,610
92	662	-27,930	-0,347	-0,487	-0,624	52,974	7,594
92	663	27,930	0,347	0,487	0,624	50,697	-81,538
93	611	-14,560	-0,348	1,250	-49,890	-132,145	44,057

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
93	661	14,560	0,348	-1,250	49,890	-49,653	-94,683
94	612	0,298	-0,191	1,971	-34,017	-151,867	-4,115
94	662	-0,298	0,191	-1,971	34,017	-131,928	-23,349
95	613	-13,959	-1,270	0,242	66,217	31,938	-10,235
95	663	13,959	1,270	-0,242	-66,217	-67,079	-174,583
96	501	-17,694	-5,680	3,229	489,257	-960,371	-2471,954
96	703	17,694	5,680	-3,229	-489,257	-674,031	-402,834
97	503	1553,450	-11,734	-10,280	15,236	3105,826	-3818,296
97	706	-1553,450	11,734	10,280	-15,236	2097,936	-2121,204
98	506	-1220,113	-1,445	6,291	278,590	-1617,831	-601,186
98	701	1220,113	1,445	-6,291	-278,590	-1566,492	-130,193
99	701	-74,534	-4,145	-0,508	66,244	104,868	-611,004
99	702	74,534	4,145	0,508	-66,244	-59,570	-322,102
100	504	20,770	1,714	-0,697	-10,759	400,142	164,845
100	505	-20,770	-1,714	0,697	10,759	-273,566	146,829
101	702	-76,450	5,239	-0,552	-50,771	65,087	335,106
101	703	76,450	-5,239	0,552	50,771	59,149	398,089
102	705	-689,919	-1,801	-1,576	-42,792	310,538	-212,747
102	705	689,919	1,801	1,576	42,792	44,160	-192,623
103	705	-692,825	2,665	-1,650	-4,575	46,611	268,912
103	706	692,825	-2,665	1,650	4,575	325,007	331,225
104	701	61,546	-2,527	1,108	63,882	-259,176	-474,949
104	704	-61,546	2,527	-1,108	-63,882	-10,228	-48,693
105	704	53,853	-3,035	1,278	-30,484	-55,767	-261,536
105	706	-53,853	3,035	-1,278	30,484	-251,941	-421,994
106	702	-6,295	-0,777	-0,137	-50,756	28,908	-34,363
106	704	6,295	0,777	0,137	50,756	1,848	-140,416
107	702	-1,618	-0,287	0,107	36,752	-55,680	-47,367
107	705	1,618	0,287	-0,107	-36,752	31,515	-17,331
108	704	5,723	1,169	-0,033	13,821	69,857	169,614
108	705	-5,723	-1,169	0,033	-13,821	-62,419	93,620
109	701	-222,657	-0,080	-0,863	13478,496	31,146	49,763
109	707	222,657	0,080	0,863	-13478,496	-4,859	-52,209
110	707	222,859	0,0	0,0	-13478,598	0,0	0,0
110	710	-222,859	0,0	0,0	13478,598	0,0	0,0
111	703	-352,750	-0,127	1,366	-11381,316	-45,711	40,214
111	708	352,750	0,127	-1,366	11381,316	4,103	-44,086
112	708	352,753	0,0	0,0	11381,402	0,0	0,0
112	711	-352,753	0,0	0,0	-11381,402	0,0	0,0
113	706	261,878	-1,020	0,000	1924,614	-7,499	-31,022
113	709	-261,878	1,020	-0,000	-1924,614	7,499	-0,000
114	709	-261,880	0,0	0,0	-1924,629	0,0	0,0
114	712	261,880	0,0	0,0	1924,629	0,0	0,0
115	701	448,877	-5,031	-0,782	-142,071	290,925	-959,415

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
115	806	-448,877	5,031	0,782	142,071	179,499	-865,063
116	703	47,975	0,115	-0,133	109,887	-9,516	-196,709
116	801	-47,975	-0,115	0,133	-109,887	89,384	265,727
117	701	-22,938	-1,520	-0,933	-137,258	377,567	-546,862
117	803	22,938	1,520	0,933	137,258	184,262	-368,319
118	801	0,144	-2,010	0,406	32,681	-25,496	-322,895
118	802	-0,144	2,010	-0,406	-32,681	-85,536	-226,877
119	802	-0,213	2,822	-0,555	-179,619	68,689	287,514
119	803	0,213	-2,822	0,555	179,619	83,059	484,350
120	805	-225,266	-1,854	-3,752	-124,274	937,201	-361,033
120	805	225,266	1,854	3,752	124,274	89,050	-146,020
121	805	-229,140	-0,245	-4,010	-73,939	38,784	64,062
121	806	229,140	0,245	4,010	73,939	1058,199	-151,134
122	801	-19,620	-1,025	0,804	-17,289	-274,552	-251,425
122	804	19,620	1,025	-0,804	17,289	54,567	-48,884
123	804	-23,158	0,445	1,507	-198,967	-43,031	15,558
123	806	23,158	-0,445	-1,507	198,967	-369,299	106,075
124	802	-2,713	-0,041	-0,766	-44,979	109,473	9,724
124	804	2,713	0,041	0,766	44,979	100,129	-20,894
125	802	-2,615	-0,396	0,195	48,421	-81,746	-50,914
125	805	2,615	0,396	-0,195	-48,421	28,506	-57,347
126	804	4,370	-0,045	0,063	36,667	62,537	12,452
126	805	-4,370	0,045	-0,063	-36,667	-79,827	-24,611
127	801	-5,137	-0,002	-0,020	5747,992	2,678	22,209
127	807	5,137	0,002	0,020	-5747,992	-2,072	-22,265
128	807	5,137	0,0	0,0	-5748,035	0,0	0,0
128	810	-5,137	0,0	0,0	5748,035	0,0	0,0
129	803	52,692	0,019	-0,205	990,478	6,596	-3,256
129	808	-52,692	-0,019	0,205	-990,478	-0,357	3,857
130	808	-52,692	0,0	0,0	-990,486	0,0	0,0
130	811	52,692	0,0	0,0	990,486	0,0	0,0
131	806	-98,383	0,383	0,000	6265,539	-24,406	11,654
131	809	98,383	-0,383	-0,000	-6263,539	24,406	-0,000
132	809	98,384	0,0	0,0	-6265,586	0,0	0,0
132	812	-98,384	0,0	0,0	6265,586	0,0	0,0
133	801	0,330	0,126	-0,051	-22,143	27,894	-3,500
133	903	-0,330	-0,126	0,051	22,143	8,576	93,381
134	803	585,991	-1,763	-0,403	-33,700	172,727	-749,136
134	906	-585,991	1,763	0,403	33,700	115,283	-512,043
135	806	-296,642	-1,052	0,057	-87,461	96,753	-492,310
135	901	296,642	1,052	-0,057	87,461	-137,816	-259,765
136	901	62,184	-0,342	0,033	31,210	5,319	-53,137
136	902	-62,184	0,342	-0,033	-31,210	-16,099	-59,474
137	902	61,615	1,135	-0,163	-25,699	19,861	123,618

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
137	903	-61,615	-1,135	0,163	25,699	33,648	249,950
138	903	-129,027	-1,116	-0,534	-15,528	171,691	-239,054
138	905	129,027	1,116	0,534	15,528	3,874	-128,220
139	905	-130,565	0,065	-0,618	6,176	15,459	80,166
139	906	130,565	-0,065	0,618	-6,176	187,999	-58,739
140	901	107,026	-0,197	0,437	16,529	-152,260	-60,488
140	904	-107,026	0,197	-0,437	-16,529	8,497	-4,367
141	904	105,696	0,288	0,548	-17,434	-22,745	1,348
141	906	-105,696	-0,288	-0,548	17,434	-157,522	93,553
142	902	-1,111	0,074	-0,104	-13,890	23,729	23,147
142	904	1,111	-0,074	0,104	13,890	10,535	1,040
143	902	-0,503	-0,233	0,092	11,591	-27,272	-40,997
143	905	0,503	0,233	-0,092	-11,591	-2,940	-35,502
144	904	1,721	-0,026	-0,007	2,639	19,337	4,058
144	905	-1,721	0,026	0,007	-2,639	-16,954	-12,551
145	901	102,705	0,037	0,398	1131,650	-11,707	5,511
145	907	-102,705	-0,037	-0,398	-1131,650	-0,408	-4,385
146	907	-102,706	0,0	0,0	-1131,658	0,0	0,0
146	910	102,706	0,0	0,0	1131,658	0,0	0,0
147	903	98,257	0,035	-0,381	-1351,484	11,103	6,314
147	908	-98,257	-0,035	0,381	1351,484	0,487	-5,235
148	908	-98,258	0,0	0,0	1351,495	0,0	0,0
148	911	98,258	0,0	0,0	-1351,495	0,0	0,0
149	906	-72,835	0,284	0,000	-2138,882	8,334	8,628
149	909	72,835	-0,284	-0,000	2138,882	-8,334	-0,000
150	909	72,836	0,0	0,0	2138,898	0,0	0,0
150	912	-72,836	0,0	0,0	-2138,898	0,0	0,0
151	901	-2,502	0,110	-0,106	4,292	50,522	12,318
151	1002	2,502	-0,110	0,106	-4,292	23,196	43,191
152	903	2,754	-0,125	0,020	6,454	-2,940	-54,739
152	1002	-2,754	0,125	-0,020	-6,454	-7,158	-8,454
153	903	220,387	-0,095	0,072	6,991	-19,995	-59,652
153	1005	-220,387	0,095	-0,072	-6,991	-16,481	11,628
154	906	-221,269	0,337	-0,058	20,792	41,408	70,844
154	1005	221,269	-0,337	0,058	-20,792	-12,089	99,803
155	901	218,665	0,093	-0,233	-0,849	49,082	-3,437
155	1004	-218,665	-0,093	0,233	0,849	69,019	50,322
156	906	-218,405	0,027	-0,010	13,184	6,564	-26,124
156	1004	218,405	-0,027	0,010	-13,184	-1,633	39,721
157	1001	-148,153	-0,460	0,162	37,829	-64,293	-92,607
157	1002	148,153	0,460	-0,162	-37,829	2,105	-84,406
158	1002	-151,097	0,554	-0,094	-17,561	-4,274	78,152
158	1003	151,097	-0,554	0,094	17,561	40,560	134,873
159	1003	-150,098	-0,070	-0,791	-4,501	214,993	-38,644

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
159	1005	150,098	0,070	0,791	4,501	89,279	11,599
160	1005	135,772	-0,169	-0,607	8,797	22,466	-2,121
160	1006	-135,772	0,169	0,607	-8,797	210,983	-62,762
161	1001	-144,555	0,018	0,577	-10,962	-198,918	2,406
161	1004	144,555	-0,018	-0,577	10,962	-22,823	4,705
162	1004	139,028	0,560	0,692	-37,042	-74,380	71,156
162	1006	-139,028	-0,560	-0,692	37,042	-191,695	144,172
163	1002	-0,129	0,067	-0,138	-8,696	29,237	11,859
163	1004	0,129	-0,067	0,138	8,696	23,707	13,947
164	1002	-1,096	-0,036	0,226	6,012	-53,624	-8,117
164	1005	1,096	0,036	-0,226	-6,012	-55,448	-5,826
165	1004	0,913	-0,052	0,101	3,732	-9,841	-12,280
165	1005	-0,913	0,052	-0,101	-3,732	-28,834	-7,899
166	1001	-255,148	-0,092	-0,987	-201,428	29,994	-3,578
166	1007	255,148	0,092	0,987	201,428	0,073	0,779
167	1007	255,150	0,0	0,0	201,430	0,0	0,0
167	1010	-255,150	0,0	0,0	-201,430	0,0	0,0
168	1003	-259,830	-0,094	1,005	16,600	-30,612	-2,914
168	1008	259,830	0,094	-1,005	-16,600	-0,006	0,064
169	1008	259,832	0,0	0,0	-16,600	0,0	0,0
169	1011	-259,832	0,0	0,0	16,600	0,0	0,0
170	1006	239,321	-0,932	-0,000	-214,511	0,855	-28,322
170	1009	-239,321	0,932	0,000	214,511	-0,855	-0,000
171	1009	-239,323	0,0	0,0	214,513	0,0	0,0
171	1012	239,323	0,0	0,0	-214,513	0,0	0,0
172	101	2992,910	80,505	-38,113	-110,164	1960,910	4709,227
172	201	-2992,910	-80,505	38,113	110,164	4899,371	9781,680
173	103	2987,171	145,200	75,284	-297,032	-3596,278	4557,676
173	203	-2987,171	-145,200	-75,284	297,032	-9594,816	21578,332
174	106	3082,918	227,295	-35,171	-251,962	636,684	9390,410
174	206	-3082,918	-227,295	35,171	251,962	5694,125	31522,664
175	201	9524,309	-328,022	50,835	-313,764	-3377,693	-6633,344
175	301	-9524,309	328,022	-50,835	313,764	-5772,574	-52410,719
176	203	8725,363	-445,544	28,344	-827,364	6343,266	-17215,645
176	303	-8725,363	445,544	-28,344	827,364	-11445,160	-62982,348
177	206	10581,117	-584,764	27,684	-296,385	-5923,789	-24558,520
177	306	-10581,117	584,764	-27,684	296,385	-1059,259	-80718,938
178	301	8670,219	392,848	-35,080	-38,892	8883,129	58573,828
178	401	-8670,219	-392,848	35,080	38,892	5114,206	75780,063
179	303	8784,640	429,009	-106,521	-722,496	10692,867	66169,625
179	403	-8784,640	-429,009	106,521	722,496	25743,066	80573,938
180	306	11503,418	627,143	-12,511	-600,190	457,737	90487,000
180	406	-11503,418	-627,143	12,511	600,190	3821,129	123995,875
181	401	1044,345	902,845	-925,592	-10641,539	17687,914	-28234,238

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
181	501	-1044.343	-902.845	925.392	10641.539	32977.918	77665.563
182	403	1034.202	1002.593	1195.746	16503.887	-23945.672	-27569.316
182	503	-1034.202	-1002.593	-1195.746	-16503.887	-42922.434	85435.938
183	406	-2942.108	-765.534	-12.732	-1225.968	1135.479	-64185.840
183	506	2942.108	765.534	12.732	1225.968	-438.480	22386.273
184	501	1433.753	-270.101	101.965	-6852.043	-25761.698	-75491.688
184	601	-1433.753	270.101	-101.965	6852.043	18320.207	55778.988
185	503	666.851	-346.004	-109.856	4547.277	51714.762	-80420.125
185	603	-666.851	346.004	109.856	-4547.277	-23697.141	55167.809
186	506	-1924.047	-86.945	-66.840	229.274	3574.823	-17895.695
186	606	1924.047	86.945	66.840	-229.274	11261.715	-1143.342
187	601	1446.931	-268.784	84.986	-5745.450	-18160.871	-54849.047
187	651	-1446.931	268.784	-84.986	5745.450	5754.359	15611.250
188	603	677.938	-343.524	-97.190	3655.691	23482.082	-54361.051
188	653	-677.938	343.524	97.190	-3655.691	-9293.968	4212.410
189	651	1378.787	-270.687	61.875	-4538.117	-6286.887	-17914.703
189	701	-1378.787	270.687	-61.875	4538.117	1016.906	-5140.199
190	653	557.268	-350.260	-75.163	2250.288	10250.738	-6363.066
190	703	-557.268	350.260	75.163	-2250.288	-5848.991	-25469.234
191	656	-1992.905	-80.798	-68.292	199.702	-11549.109	1453.151
191	706	1992.905	80.798	68.292	-199.702	17365.199	-8334.340
192	701	527.617	-25.129	-28.611	-999.912	6364.458	-5098.805
192	801	-527.617	25.129	28.611	999.912	5380.729	-3460.518
193	703	414.716	64.865	4.544	2013.853	-1266.982	13698.152
193	803	-414.716	-64.865	-4.544	-2013.853	-280.777	8395.695
194	706	-977.527	52.891	107.021	908.563	-20945.867	11402.051
194	806	977.527	-52.891	-107.021	-908.563	-15507.695	6613.738
195	801	555.826	-7.918	2.842	-134.570	-416.227	-1474.636
195	901	-555.826	7.918	-2.842	134.570	-690.260	-1608.092
196	803	201.424	-17.537	0.291	863.179	-42.436	-5606.219
196	903	-201.424	17.537	-0.291	-863.179	-70.852	-1221.092
197	806	-581.690	-12.684	-28.263	718.666	8327.766	-4236.051
197	906	581.690	12.684	28.263	-718.666	2675.485	-702.051
198	901	42.700	3.487	-3.766	-105.673	1409.496	1007.627
198	1001	-42.700	-3.487	3.766	105.673	56.640	349.846
199	903	44.059	0.956	2.277	188.619	-761.251	195.979
199	1003	-44.059	-0.956	-2.277	-188.619	-125.282	178.339
200	906	-40.748	4.600	0.997	209.959	-605.091	1447.400
200	1006	40.748	-4.600	-0.997	-209.959	214.954	343.353
201	401	7469.434	201.580	-346.484	77.352	-21695.605	-46762.445
201	510	-7469.434	-201.580	346.484	-77.352	40706.867	57822.977
202	403	7403.094	116.895	1021.667	6119.273	-33.502	-50528.258
202	511	-7403.094	-116.895	-1021.667	-6119.273	-57218.336	57078.762
203	406	14392.293	-503.826	0.220	7.484	-4805.941	-59810.078

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
203	512	-14392.293	503.826	-0.220	-7.484	4793.848	32168.512
204	510	7468.918	-110.160	186.421	13.694	-43423.441	-53043.434
204	710	-7468.918	110.160	-186.421	-13.694	-13274.219	19539.691
205	511	7468.898	-150.551	-257.061	-8.483	59550.410	-52917.520
205	711	-7468.898	150.551	257.061	8.483	18631.340	7129.242
206	512	14391.652	-175.299	0.220	6.759	-6188.824	-32168.484
206	712	-14391.652	175.299	-0.220	-6.759	6121.770	-21147.664
207	710	7469.148	0.084	-3.902	3.367	6615.789	-7820.488
207	810	-7469.148	-0.084	3.902	-3.367	-5286.605	7848.953
208	711	7469.281	23.865	46.199	4.698	-13008.563	2766.795
208	811	-7469.281	-23.865	-46.199	-4.698	-2727.202	5361.750
209	712	14391.316	91.766	0.220	6.036	-4197.141	21147.664
209	812	-14391.316	-91.766	-0.220	-6.036	4122.043	10109.781
210	810	7469.145	4.194	-15.908	-7.393	2446.584	-2851.584
210	910	-7469.145	-4.194	15.908	7.393	2968.208	4484.336
211	811	7469.203	-0.694	5.752	7.441	2238.251	-6222.770
211	911	-7469.203	0.694	-5.752	-7.441	-4477.648	5952.523
212	812	14391.465	-12.856	0.220	-2.566	2141.539	-10109.781
212	912	-14391.465	12.856	-0.220	2.566	-2227.371	5104.699
213	910	7469.055	-46.517	77.670	-7.065	-3527.147	-3500.486
213	1010	-7469.055	46.517	-77.670	7.065	-26709.805	-14608.594
214	911	7469.113	-49.207	-81.958	6.864	5145.152	-4777.574
214	1011	-7469.113	49.207	81.958	-6.864	26761.324	-14378.977
215	912	14391.543	-85.712	0.220	-0.238	88.475	-5104.684
215	1012	-14391.543	85.712	-0.220	0.238	-174.506	-28263.625
216	1010	7469.242	79.138	-147.005	0.000	26809.766	14432.621
216	1110	-7469.242	-79.138	147.005	-0.000	-0.000	0.000
217	1011	7469.305	78.760	146.787	0.000	-26769.973	14363.707
217	1111	-7469.305	-78.760	-146.787	-0.000	0.000	0.000
218	1012	14391.266	154.984	0.220	-0.000	-40.206	28263.621
218	1112	-14391.266	-154.984	-0.220	0.000	0.000	-0.000

RESULTANT JOINT LOADS - SUPPORTS

JOINT		FORCE			MOMENT		
		X FORCE	Y FORCE	Z FORCE	X MOMENT	Y MOMENT	Z MOMENT
1110	GLOBAL	-921.937	535.468	7394.645	0.000	-0.000	0.000
1111	GLOBAL	922.157	535.850	7394.645	0.000	0.000	-0.000
1112	GLOBAL	-0.220	-2520.318	14169.707	-0.000	0.000	0.000
		0.000	-1449.000	28,295.997			

RESULTANT JOINT DISPLACEMENTS = SUPPORTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1110	GLOBAL	0.0	0.0	0.0	-0.000	-0.000	0.000
1111	GLOBAL	0.0	0.0	0.0	-0.000	0.000	-0.000
1112	GLOBAL	0.0	0.0	0.0	-0.000	0.000	-0.000

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

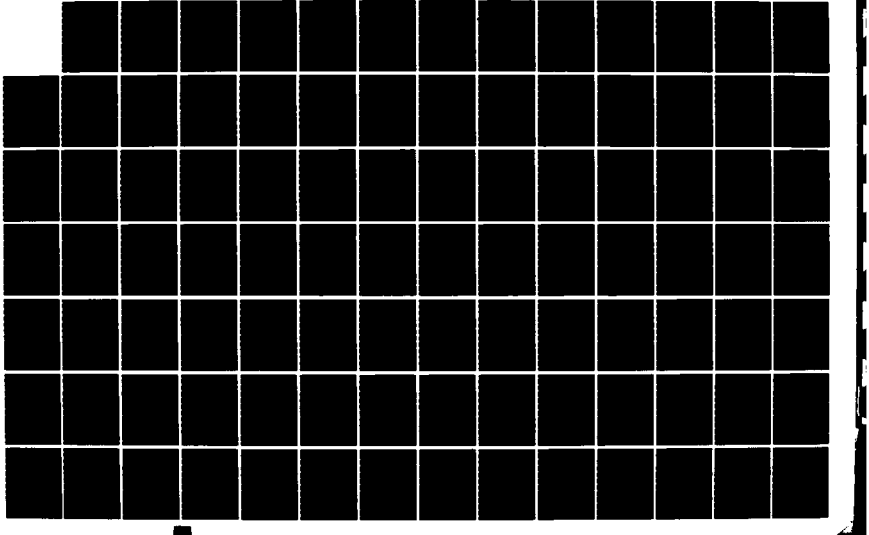
JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1010	GLOBAL	-0.001	0.001	-0.001	-0.000	-0.000	0.000
1007	GLOBAL	0.000	0.003	-0.002	-0.000	-0.000	0.000
910	GLOBAL	-0.001	0.002	-0.001	-0.000	0.000	0.000
1001	GLOBAL	0.000	0.003	-0.002	-0.000	-0.000	0.000
907	GLOBAL	0.000	0.004	-0.002	-0.000	0.000	0.000
810	GLOBAL	-0.001	0.004	-0.002	-0.000	0.000	0.000
1002	GLOBAL	0.000	0.002	-0.002	-0.000	-0.000	0.000
1004	GLOBAL	-0.000	0.003	-0.003	-0.000	0.000	0.000
901	GLOBAL	0.000	0.004	-0.002	-0.000	0.000	0.000
807	GLOBAL	0.000	0.005	-0.002	-0.000	0.000	0.000
710	GLOBAL	-0.000	0.005	-0.002	-0.000	0.000	0.000
1003	GLOBAL	0.000	0.002	-0.002	-0.000	0.000	0.000
1005	GLOBAL	-0.000	0.002	-0.003	-0.000	-0.000	0.000
903	GLOBAL	0.000	0.003	-0.002	-0.000	-0.000	0.000
1006	GLOBAL	-0.000	0.002	-0.004	-0.000	0.000	0.000
906	GLOBAL	-0.000	0.004	-0.004	-0.000	0.000	0.000
902	GLOBAL	0.000	0.004	-0.002	-0.000	-0.000	0.000
904	GLOBAL	-0.000	0.004	-0.003	-0.000	0.000	0.000
806	GLOBAL	-0.000	0.005	-0.003	-0.000	0.000	0.000
801	GLOBAL	0.000	0.005	-0.002	-0.000	0.000	0.000
707	GLOBAL	0.000	0.006	-0.002	-0.000	0.000	0.000
510	GLOBAL	0.000	0.008	-0.003	-0.000	-0.000	0.000
1008	GLOBAL	0.000	0.002	-0.002	-0.000	0.000	0.000
908	GLOBAL	0.000	0.003	-0.002	-0.000	-0.000	0.000
905	GLOBAL	-0.000	0.003	-0.003	-0.000	-0.000	0.000
803	GLOBAL	0.000	0.005	-0.002	-0.000	-0.000	-0.000
1009	GLOBAL	-0.000	0.002	-0.004	-0.000	0.000	0.000
909	GLOBAL	-0.000	0.004	-0.004	-0.000	0.000	0.000
809	GLOBAL	-0.000	0.005	-0.003	-0.000	0.000	-0.000
805	GLOBAL	-0.000	0.005	-0.003	-0.000	-0.000	0.000
804	GLOBAL	-0.000	0.005	-0.003	-0.000	0.000	0.000
706	GLOBAL	0.001	0.007	-0.003	-0.000	0.000	-0.000

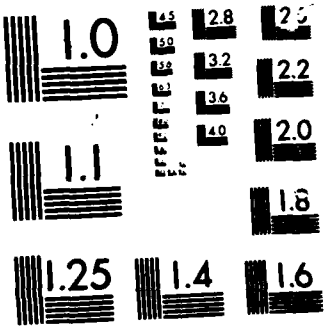
RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
701	GLOBAL	0.000	0.006	-0.002	-0.000	0.000	0.000
802	GLOBAL	0.000	0.005	-0.002	-0.000	-0.000	0.000
703	GLOBAL	0.000	0.006	-0.002	-0.000	-0.000	-0.000
507	GLOBAL	0.000	0.008	-0.002	-0.000	-0.000	0.000
401	GLOBAL	-0.000	0.009	-0.003	-0.000	-0.000	0.000
1011	GLOBAL	0.001	0.001	-0.001	-0.000	0.000	-0.000
911	GLOBAL	0.001	0.002	-0.001	-0.000	-0.000	-0.000
808	GLOBAL	0.000	0.005	-0.002	-0.000	-0.000	-0.000
1012	GLOBAL	0.000	0.002	-0.000	-0.000	0.000	-0.000
912	GLOBAL	0.000	0.003	-0.001	-0.000	0.000	-0.000
812	GLOBAL	0.001	0.005	-0.001	-0.000	0.000	-0.000
709	GLOBAL	0.001	0.007	-0.003	-0.000	0.000	-0.000
656	GLOBAL	0.001	0.007	-0.003	-0.000	-0.000	-0.000
705	GLOBAL	0.000	0.007	-0.003	-0.000	-0.000	-0.000
704	GLOBAL	0.000	0.006	-0.003	-0.000	0.000	-0.000
503	GLOBAL	0.000	0.008	-0.003	-0.000	0.000	-0.000
702	GLOBAL	0.000	0.006	-0.002	-0.000	-0.000	-0.000
651	GLOBAL	0.000	0.006	-0.002	-0.000	0.000	0.000
506	GLOBAL	0.001	0.007	-0.002	-0.000	-0.000	-0.000
708	GLOBAL	0.000	0.007	-0.002	-0.000	-0.000	-0.000
653	GLOBAL	0.000	0.007	-0.002	-0.000	0.000	-0.000
501	GLOBAL	0.000	0.008	-0.003	-0.000	-0.000	0.000
301	GLOBAL	-0.001	0.021	-0.004	-0.000	0.000	0.000
811	GLOBAL	0.001	0.004	-0.002	-0.000	-0.000	-0.000
712	GLOBAL	0.001	0.006	-0.002	-0.000	0.000	-0.000
515	GLOBAL	0.001	0.007	-0.003	-0.000	-0.000	-0.000
508	GLOBAL	0.000	0.008	-0.002	-0.000	0.000	-0.000
514	GLOBAL	0.000	0.008	-0.002	-0.000	0.000	-0.000
403	GLOBAL	0.001	0.009	-0.003	-0.000	0.000	-0.000
603	GLOBAL	0.000	0.007	-0.003	-0.000	0.000	-0.000
502	GLOBAL	0.000	0.008	-0.003	-0.000	-0.000	0.000
505	GLOBAL	0.000	0.008	-0.003	0.000	-0.000	-0.000
513	GLOBAL	0.000	0.008	-0.002	-0.000	-0.000	0.000
661	GLOBAL	0.000	0.006	-0.002	-0.000	0.000	-0.000
601	GLOBAL	0.000	0.007	-0.002	-0.000	-0.000	0.000
509	GLOBAL	0.001	0.007	-0.003	-0.000	-0.000	-0.000
406	GLOBAL	0.001	0.008	-0.002	-0.000	-0.000	-0.000
504	GLOBAL	0.000	0.008	-0.003	0.000	0.000	-0.000
711	GLOBAL	0.001	0.006	-0.002	-0.000	-0.000	-0.000
653	GLOBAL	0.000	0.007	-0.002	-0.000	0.000	0.000
[illegible]	GLOBAL	-0.001	0.023	-0.005	-0.000	-0.000	-0.000
[illegible]	GLOBAL	-0.001	0.020	-0.004	-0.000	-0.000	-0.000
[illegible]	GLOBAL	-0.000	0.021	-0.004	-0.000	-0.000	-0.000
[illegible]	GLOBAL	-0.000	0.024	-0.004	-0.000	0.000	0.000

AD-A165 616 NATURAL FREQUENCY AND EARTHQUAKE ANALYSIS EAST COAST AIR COMBAT MANEUVERI..(U) CREST ENGINEERING INC TULSA OK SEP 76 27-771-99 CHES/NAVFAC-FPO-7611 4/7

UNCLASSIFIED N62477-76-C-0179 F/G 13/13 NL





MICROCOPY RESOLUTION TEST CHART

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
512	GLOBAL	0.001	0.007	-0.002	-0.000	-0.000	-0.000
511	GLOBAL	0.000	0.008	-0.003	-0.000	0.000	-0.000
613	GLOBAL	0.000	0.007	-0.002	-0.000	0.000	0.000
612	GLOBAL	0.000	0.007	-0.002	-0.000	0.000	-0.000
611	GLOBAL	0.000	0.007	-0.002	-0.000	-0.000	-0.000
106	GLOBAL	-0.002	0.025	-0.005	-0.000	-0.000	0.000
205	GLOBAL	-0.001	0.023	-0.005	0.000	-0.000	0.000
204	GLOBAL	-0.001	0.023	-0.004	0.000	0.000	0.000
203	GLOBAL	-0.001	0.022	-0.004	-0.000	0.000	-0.000
101	GLOBAL	-0.000	0.027	-0.005	-0.000	0.000	0.000
202	GLOBAL	-0.001	0.023	-0.004	-0.000	-0.000	0.000
612	GLOBAL	0.000	0.007	-0.002	-0.000	0.000	0.000
105	GLOBAL	-0.001	0.025	-0.005	0.000	-0.000	0.000
104	GLOBAL	-0.001	0.026	-0.004	0.000	0.000	0.000
103	GLOBAL	-0.000	0.025	-0.005	-0.000	0.000	-0.000
102	GLOBAL	-0.000	0.026	-0.005	-0.000	-0.000	0.000

LOADING = 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
41	101	48.226	0.789	-59.259	0.086	7042.785	105.920
41	102	-48.226	-0.789	59.259	-0.086	-211.653	31.432
42	102	46.679	0.467	-59.007	0.143	548.566	15.920
42	103	-48.679	-0.467	59.007	-0.143	6438.695	65.261
43	103	-87.416	-0.546	-13.057	1.086	2545.649	-57.618
43	105	87.416	0.546	13.057	-1.086	-274.695	-2.511
44	105	-86.162	-1.331	-13.866	-0.960	325.876	-52.749
44	106	86.162	1.331	13.866	0.960	2087.223	-178.909
45	101	48.905	0.600	-15.784	1.372	2730.657	93.254
45	104	-48.905	-0.600	15.784	-1.372	14.514	11.052
46	104	50.211	1.275	-16.845	-0.595	-7.004	46.894
46	106	-50.211	-1.275	16.845	0.595	2938.480	174.990
47	102	1.137	0.298	0.737	-0.136	-136.722	24.142
47	104	-1.137	-0.298	-0.737	0.136	8.567	27.620
48	102	-0.773	-0.282	0.485	-0.074	-136.619	-23.209
48	105	0.773	0.282	-0.485	0.074	52.315	-25.810
49	104	-0.564	-0.544	0.524	0.135	-0.460	-30.326

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
49	105	0,364	0,344	-0,524	-0,135	-49,966	-29,850
50	201	727,014	-0,450	-26,404	0,309	4551,613	-17,539
50	202	-727,014	0,450	26,404	-0,309	42,659	-60,745
51	202	727,161	1,201	-26,327	0,255	75,669	95,865
51	203	-727,161	-1,201	26,327	-0,255	4505,219	113,097
52	203	-788,467	-0,919	-7,519	0,806	1327,311	-95,742
52	205	788,467	0,919	7,519	-0,806	-19,567	-64,065
53	205	-790,215	-0,500	-8,229	-0,511	40,254	9,160
53	206	790,215	0,500	8,229	0,511	1391,767	-96,087
54	201	-167,478	-0,289	-7,271	0,855	1119,908	-18,424
54	204	167,478	0,289	7,271	-0,855	144,772	-31,927
55	204	-168,235	0,657	-8,058	-0,406	-137,440	26,637
55	206	168,235	-0,657	8,058	0,406	1539,759	87,751
56	202	-0,391	0,008	0,633	-0,102	-118,109	7,451
56	204	0,391	-0,008	-0,633	0,102	7,978	-6,005
57	202	-1,515	-0,356	0,556	-0,083	-118,161	-27,670
57	205	1,515	0,356	-0,556	0,083	21,589	-34,206
58	204	1,351	-0,123	0,153	-0,099	-6,695	-0,715
58	205	-1,351	0,123	-0,153	-0,099	-19,967	-20,699
59	201	-1950,981	-0,064	-11,143	157,363	1872,228	-66,447
59	303	1950,981	0,064	11,143	-157,363	2493,758	41,265
60	203	1111,240	-5,883	-5,158	-215,522	819,760	-938,961
60	306	-1111,240	5,883	5,158	215,522	1200,779	-1365,581
61	206	1106,854	3,337	-7,132	351,695	1166,291	629,337
61	301	-1106,854	-3,337	7,132	-351,695	1627,669	677,999
62	301	947,440	-1,763	-25,852	108,729	4593,895	-254,581
62	303	-947,440	1,763	25,852	-108,729	4402,563	-358,960
63	303	-145,051	-2,825	-11,775	61,356	1892,747	-314,406
63	306	145,051	2,825	11,775	-61,356	2204,298	-666,676
64	301	-730,434	0,745	-11,432	43,390	2063,253	4,677
64	306	730,434	-0,745	11,432	-43,390	1914,425	254,552
65	301	1731,144	-2,382	-24,279	350,406	3544,525	-362,817
65	502	-1731,144	2,382	24,279	-350,406	869,320	-70,164
66	502	1751,985	-2,748	-25,011	95,250	-192,854	84,424
66	503	-1751,985	2,748	25,011	-95,250	4759,750	-584,000
67	503	254,527	-5,581	-13,144	773,492	2385,929	-313,668
67	505	-254,527	5,581	13,144	-773,492	5,675	-700,980
68	505	232,056	-8,069	-7,933	-511,211	176,597	240,719
68	506	-232,056	8,069	7,933	511,211	1265,568	-1348,036
69	501	1002,930	-17,350	-11,083	462,907	1194,469	-1781,089
69	504	-1002,930	17,350	11,083	-462,907	929,427	-1373,065
70	504	1004,485	20,099	-5,739	-443,914	-694,849	1232,870
70	506	-1004,485	-20,099	5,739	443,914	1738,235	2421,133
71	502	22,552	-1,383	-1,692	-211,550	-149,154	-97,248

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
71	504	-22,552	1,383	1,692	211,550	456,771	-154,232
72	502	-20,181	-1,991	-0,960	-222,344	-452,307	-111,503
72	505	20,181	1,991	0,960	222,344	626,872	-250,371
73	501	448,542	0,162	1,737	2804,051	-51,896	15,785
73	507	-448,542	-0,162	-1,737	-2804,051	-1,011	-10,862
74	507	-448,545	0,0	0,0	-2804,072	0,0	0,0
74	510	448,545	0,0	0,0	2804,072	0,0	0,0
75	503	671,165	0,242	-2,600	4200,809	80,681	-8,904
75	508	-671,165	-0,242	2,600	-4200,809	-1,514	16,272
76	508	-671,170	0,0	0,0	-4200,844	0,0	0,0
76	511	671,170	0,0	0,0	4200,844	0,0	0,0
77	506	480,003	-1,870	0,000	-8116,426	31,626	-56,860
77	509	-480,003	1,870	-0,000	8116,426	-31,626	-0,000
78	509	-480,006	0,0	0,0	8116,484	0,0	0,0
78	512	480,006	0,0	0,0	-8116,484	0,0	0,0
79	501	-4,446	1,267	56,410	-232,184	-1253,669	47,373
79	513	4,446	-1,267	-56,410	232,184	-772,340	-1,869
80	503	-6,758	-2,232	-79,169	-359,988	2802,451	-114,284
80	514	6,758	2,232	79,169	359,988	40,982	34,126
81	506	-6,792	-1,191	88,750	612,710	-2446,999	-32,895
81	515	6,792	1,191	-88,750	-612,710	-748,007	-9,968
82	513	-56,410	3,325	-3,212	-1,869	784,708	186,153
82	651	56,410	-3,325	3,212	1,869	-90,819	551,964
83	514	-79,169	2,458	8,697	-34,126	144,951	532,054
83	653	79,169	-2,458	-8,697	34,126	-2023,497	198,829
84	515	-88,750	-8,792	1,191	-9,968	612,710	-748,007
84	656	88,750	8,792	-1,191	9,968	-869,889	-1151,100
85	601	-2,015	-15,441	10,843	-95,931	-571,313	-939,584
85	611	2,015	15,441	-10,843	95,931	-209,385	-172,178
86	603	0,874	27,052	-9,068	-471,408	500,551	1734,562
86	613	-0,874	-27,052	9,068	471,408	152,536	213,160
87	651	2,685	-13,859	-4,676	31,910	320,876	-735,115
87	661	-2,685	13,859	4,676	-31,910	-40,308	-96,411
88	653	-1,546	2,248	2,901	-4,917	-107,154	425,655
88	663	1,546	-2,248	-2,901	4,917	-66,905	-290,761
89	611	18,404	-0,105	-5,504	21,570	358,527	-91,342
89	612	-18,404	0,105	5,504	-21,570	314,704	71,145
90	612	20,528	0,223	-5,893	-5,413	327,871	-15,693
90	613	-20,528	-0,223	5,893	5,413	419,995	58,510
91	661	10,896	-0,567	-2,663	33,735	284,500	-133,277
91	662	-10,896	0,567	2,663	-33,735	282,529	12,523
92	662	2,772	-0,895	-2,274	13,486	244,988	-67,975
92	663	-2,772	0,895	2,274	-13,486	239,140	-122,602
93	611	-6,841	2,118	3,980	-47,058	-262,595	240,127

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
93	601	6,841	-2,118	-5,980	47,054	-316,410	68,025
93	612	0,388	-0,328	8,124	-55,452	-642,575	-26,983
94	602	-0,388	0,328	-8,124	55,452	-527,318	-20,248
95	613	5,048	-0,651	1,257	174,061	51,413	-125,550
95	603	-5,048	0,651	-1,257	-174,061	-234,224	28,877
96	501	-1450,957	-5,447	-6,359	347,325	2018,184	-1627,857
96	703	1450,957	5,447	6,359	-347,325	1200,485	-1129,419
97	503	921,790	-5,783	-9,163	404,943	3649,917	-906,430
97	706	-921,790	5,783	9,163	-404,943	988,363	-2020,956
98	506	787,110	3,411	-8,837	77,033	3401,116	903,755
98	701	-787,110	-3,411	8,837	-77,033	1071,623	822,495
99	701	169,658	-3,977	-1,128	51,636	229,910	-589,490
99	702	-169,658	3,977	1,128	-51,636	24,123	-305,891
100	504	19,180	-1,232	-4,251	366,770	256,439	-14,038
100	505	-19,180	1,232	4,251	-366,770	516,446	-209,891
101	702	178,969	-0,823	-1,260	29,957	59,741	99,433
101	703	-178,969	0,823	1,260	-29,957	223,875	-284,618
102	703	-372,129	2,961	-0,696	25,633	93,321	461,140
102	705	372,129	-2,961	0,696	-25,633	65,294	205,125
103	705	-377,912	-4,444	-0,705	-19,638	-30,072	-303,881
103	706	377,912	4,444	0,705	19,638	188,753	-696,816
104	701	-334,072	-4,146	-0,036	42,325	-16,279	-584,653
104	704	334,072	4,146	0,036	-42,325	24,436	-348,508
105	704	-532,069	3,685	0,086	-49,501	-15,560	258,634
105	706	532,069	-3,685	-0,086	49,501	-5,872	570,993
106	702	0,665	-1,039	-0,019	-29,688	-57,542	-155,270
106	704	-0,665	1,039	0,019	29,688	41,864	-98,538
107	702	-9,820	0,193	0,112	-14,424	-53,762	71,188
107	705	9,820	-0,193	-0,112	14,424	28,511	-27,827
108	704	1,471	-0,354	-0,103	33,928	27,432	-8,664
108	705	-1,471	0,354	0,103	-33,928	-4,169	-70,929
109	701	36,367	0,013	0,141	7308,848	-1,655	28,710
109	707	-36,367	-0,013	-0,141	-7308,848	-2,655	-28,311
110	707	-36,367	0,0	0,0	-7308,902	0,0	0,0
110	710	36,367	0,0	0,0	7308,902	0,0	0,0
111	703	-378,337	-0,136	1,465	10765,742	-40,746	-45,854
111	708	378,337	0,136	-1,465	-10765,742	-3,881	41,701
112	708	378,340	0,0	0,0	-10765,820	0,0	0,0
112	711	-378,340	0,0	0,0	10765,820	0,0	0,0
113	706	18,241	-0,071	0,000	-15910,180	61,995	-2,161
113	709	-18,241	0,071	-0,000	15910,180	-61,995	-0,000
114	709	-18,241	0,0	0,0	15910,301	0,0	0,0
114	712	18,241	0,0	0,0	-15910,301	0,0	0,0
115	701	-238,433	-1,201	-0,807	-167,659	348,791	-518,098

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
115	806	238.435	1.201	0.807	167.659	136.824	-204.904
116	703	419.128	3.504	-1.046	-8.658	312.502	1249.264
116	801	-419.128	-3.504	1.046	8.658	317.366	860.043
117	701	-145.839	-2.538	-1.981	19.326	604.161	-796.307
117	803	145.839	2.538	1.981	-19.326	588.112	-731.369
118	801	56.488	-0.646	-0.758	8.348	205.612	-148.982
118	802	-56.488	0.646	0.758	-8.348	1.759	-27.555
119	802	62.597	-1.093	-1.158	-60.626	17.878	-9.024
119	803	-62.597	1.093	1.158	60.626	298.729	-289.763
120	803	-114.186	2.194	-2.071	-6.712	481.959	595.293
120	805	114.186	-2.194	2.071	6.712	84.374	204.666
121	805	-116.984	-3.697	-1.925	-59.100	-28.542	-268.778
121	806	116.984	3.697	1.925	59.100	555.203	-742.524
122	801	-7.259	-1.571	-0.499	-8.257	86.388	-257.779
122	804	7.259	1.571	0.499	8.257	50.203	-191.786
123	804	-3.464	3.440	0.045	-142.000	-11.735	240.954
123	806	3.464	-3.440	-0.045	142.000	-0.683	700.009
124	802	6.335	-0.053	-0.416	-20.536	29.285	-20.579
124	804	-6.335	0.053	0.416	20.536	84.484	6.114
125	802	-5.788	0.000	-0.016	2.389	-37.127	16.000
125	805	5.788	-0.000	0.016	-2.389	41.652	-15.887
126	804	-0.770	-0.334	-0.129	37.319	36.560	-43.034
126	805	0.770	0.334	0.129	-37.319	-1.281	-48.226
127	801	58.171	0.021	0.225	4531.547	-5.228	18.192
127	807	-58.171	-0.021	-0.225	-4531.547	-1.634	-17.553
128	807	-58.171	0.0	0.0	-4531.578	0.0	0.0
128	810	58.171	0.0	0.0	4531.578	0.0	0.0
129	805	5.540	0.002	-0.021	5211.000	2.552	-20.124
129	808	-5.540	-0.002	0.021	-5211.000	-1.878	20.185
130	808	-5.541	0.0	0.0	-5211.039	0.0	0.0
130	811	5.541	0.0	0.0	5211.039	0.0	0.0
131	806	-112.865	0.440	0.000	-1130.906	4.407	15.370
131	809	112.865	-0.440	-0.000	1130.906	-4.407	-0.000
132	809	112.866	0.0	0.0	1130.915	0.0	0.0
132	812	-112.866	0.0	0.0	-1130.915	0.0	0.0
133	801	-301.836	-0.513	-0.566	14.344	155.020	-111.225
133	903	301.836	0.513	0.566	-14.344	249.690	-112.621
134	803	226.452	-0.537	-0.417	-92.066	245.100	-166.072
134	906	-226.452	0.537	0.417	92.066	52.807	-218.234
135	806	124.781	-0.852	-0.887	10.166	397.948	-457.635
135	901	-124.781	0.852	0.887	-10.166	236.502	-151.755
136	901	118.927	-0.439	-0.790	-0.957	246.801	-91.929
136	902	-118.927	0.439	0.790	0.957	15.094	-52.591
137	902	121.183	-0.094	-0.735	9.006	10.713	33.955

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
137	903	-121,185	0,094	0,735	-9,006	231,026	-64,857
138	903	-12,469	0,426	-0,351	30,220	96,828	85,491
138	905	12,469	-0,426	0,351	-30,220	18,562	54,501
139	905	-14,112	-1,298	-0,117	-35,064	-9,559	-109,702
139	906	14,112	1,298	0,117	55,064	47,959	-317,502
140	901	-49,813	-0,878	-0,553	32,576	154,226	-148,348
140	904	49,813	0,878	0,553	-32,576	27,673	-140,371
141	904	-48,923	1,472	-0,374	-19,163	-17,496	156,529
141	906	48,923	-1,472	0,374	19,163	140,583	327,868
142	902	2,085	-0,063	-0,036	-7,547	-13,103	-15,952
142	904	-2,085	0,063	0,036	7,547	24,960	-4,829
143	902	-2,414	-0,057	-0,091	-10,478	-3,291	2,705
143	905	2,414	0,057	0,091	10,478	33,301	-21,307
144	904	0,485	-0,167	-0,143	16,842	20,696	-20,988
144	905	-0,485	0,167	0,143	-16,842	26,306	-33,894
145	901	-109,331	-0,039	-0,423	402,412	13,041	0,359
145	907	109,331	0,039	0,423	-402,412	-0,145	-1,559
146	907	109,332	0,0	0,0	-402,415	0,0	0,0
146	910	-109,332	0,0	0,0	402,415	0,0	0,0
147	903	157,091	0,057	-0,608	-1906,550	17,842	9,109
147	908	-157,091	-0,057	0,608	1906,550	0,687	-7,385
148	908	-157,092	0,0	0,0	1906,565	0,0	0,0
148	911	157,092	0,0	0,0	-1906,565	0,0	0,0
149	906	85,056	-0,331	0,000	623,704	-2,430	-10,076
149	909	-85,056	0,331	-0,000	-623,704	2,430	0,000
150	909	-85,057	0,0	0,0	-623,709	0,0	0,0
150	912	85,057	0,0	0,0	623,709	0,0	0,0
151	901	-259,332	-0,133	-0,106	-1,362	65,558	-37,895
151	1002	259,332	0,133	0,106	1,362	-11,920	-29,643
152	903	260,065	0,160	0,196	-10,749	-14,781	51,249
152	1002	-260,065	-0,160	-0,196	10,749	-84,715	29,636
153	903	122,388	-0,003	0,084	0,053	5,771	0,310
153	1005	-122,388	0,003	-0,084	-0,053	-48,301	-1,814
154	906	-123,001	0,305	-0,104	13,732	62,789	95,313
154	1005	123,001	-0,305	0,104	-13,732	-10,206	59,017
155	901	-132,961	-0,051	0,018	10,844	22,559	-10,029
155	1004	132,961	0,051	-0,018	-10,844	-31,563	-15,669
156	906	132,565	0,008	-0,156	15,119	85,068	-1,623
156	1004	-132,565	-0,008	0,156	-15,119	-5,921	5,439
157	1001	124,529	0,065	-0,776	-8,803	211,875	9,836
157	1002	-124,529	-0,065	0,776	8,803	86,068	15,327
158	1002	-211,318	0,040	-0,556	-27,569	11,697	27,590
158	1003	211,318	-0,040	0,556	27,569	202,210	-12,301
159	1003	-227,218	0,741	-0,705	29,861	208,094	162,272

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
159	1005	227,218	-0,741	0,703	-29,861	62,255	122,772
160	1005	-66,323	-0,750	-0,180	-6,354	8,024	-94,201
160	1006	66,323	0,750	0,180	6,354	61,259	-194,279
161	1001	116,911	-0,305	-0,317	21,139	106,495	-64,827
161	1004	-116,911	0,305	0,317	-21,139	15,492	-52,485
162	1004	-54,489	0,588	-0,239	-18,111	25,744	66,715
162	1006	54,489	-0,588	0,239	18,111	66,069	159,554
163	1002	1,559	0,011	-0,136	-2,010	18,479	3,239
163	1004	-1,559	-0,011	0,136	2,010	33,797	0,813
164	1002	-1,542	-0,030	0,004	-5,070	-8,530	-5,645
164	1005	1,542	0,030	-0,004	5,070	6,987	-5,782
165	1004	-0,364	-0,016	-0,131	7,143	21,869	-1,846
165	1005	0,364	0,016	0,131	-7,143	28,594	-4,409
166	1001	207,567	0,075	0,803	441,171	-24,501	3,984
166	1007	-207,567	-0,075	-0,803	-441,171	-0,159	-1,707
167	1007	-207,569	0,0	0,0	-441,174	0,0	0,0
167	1010	207,569	0,0	0,0	441,174	0,0	0,0
168	1003	-380,246	-0,137	1,471	-1805,844	-45,458	2,818
168	1008	380,246	0,137	-1,471	1805,644	0,650	-6,988
169	1008	380,249	0,0	0,0	1805,858	0,0	0,0
169	1011	-380,249	0,0	0,0	-1805,858	0,0	0,0
170	1006	-103,031	0,401	-0,000	1392,422	-5,420	12,193
170	1009	103,031	-0,401	0,000	-1392,422	5,420	-0,000
171	1009	103,032	0,0	0,0	-1392,433	0,0	0,0
171	1012	-103,032	0,0	0,0	1392,433	0,0	0,0
172	101	3076,043	-43,436	223,170	-199,175	-8409,902	-2363,699
172	201	-3076,043	43,436	-223,170	199,175	-31760,648	-5454,848
173	103	2966,935	76,333	145,749	-122,878	-7713,023	2203,586
173	203	-2966,935	-76,333	-145,749	122,878	-18521,742	11536,297
174	106	3018,021	-32,896	84,082	-353,899	-2513,804	-757,451
174	206	-3018,021	32,896	-84,082	353,899	-12620,867	-5183,898
175	201	10647,941	102,242	-529,119	-176,489	24775,863	4656,160
175	301	-10647,941	-102,242	529,119	176,489	70465,458	13747,367
176	203	9049,664	-90,236	-348,804	-451,948	12993,777	-9178,578
176	303	-9049,664	90,236	348,804	451,948	49790,910	-7063,973
177	206	9134,816	-13,688	-382,132	-906,908	10679,734	5823,521
177	306	-9134,816	13,688	382,132	906,908	58104,082	-6287,434
178	301	11200,598	-113,038	540,682	-193,895	-77459,375	-16605,059
178	401	-11200,598	113,038	-540,682	193,895	-107473,875	-22053,844
179	303	8113,363	54,961	359,359	-204,264	-57686,789	8409,805
179	403	-8113,363	-54,961	-359,359	204,264	-85252,832	3548,623
180	306	9652,586	78,077	406,696	-2214,221	-61006,184	8075,461
180	406	-9652,586	-78,077	-406,696	2214,221	-78083,875	18626,852
181	401	-2640,501	551,416	-622,629	-5994,531	58875,313	12958,078

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
181	501	2640.501	-551.416	622.629	5994.551	-24785.992	17232.273
182	403	1981.934	511.109	1605.536	-7377.984	14268.840	12911.090
182	503	-1981.934	-511.109	-1605.536	7377.984	-104053.063	15670.957
183	406	-242.537	-1082.469	413.492	10685.477	42958.910	-23621.910
183	506	242.537	1082.469	-413.492	-10685.477	-65595.438	-35637.707
184	501	-1463.632	-57.230	-74.329	-2052.040	20955.027	-18422.617
184	601	1463.632	57.230	74.329	2052.040	-15530.262	14245.828
185	503	2022.951	-59.009	-305.969	-6899.855	94028.813	-7111.563
185	603	-2022.951	59.009	305.969	6899.855	-71698.250	4264.594
186	506	-354.328	91.155	-295.658	4725.430	69218.063	30563.066
186	656	354.328	-91.155	295.658	-4725.430	-4475.117	-10602.035
187	601	-1450.636	-58.163	-59.398	-2901.179	15365.973	-13545.656
187	651	1450.636	58.163	59.398	2901.179	-6692.891	5054.797
188	603	2018.030	-38.558	-332.394	-5074.785	71375.813	-4513.117
188	653	-2018.030	38.558	332.394	5074.785	-22852.016	-1115.615
189	651	-1509.958	-56.290	-37.855	-3764.997	6746.348	-5788.902
189	701	1509.958	56.290	37.855	3764.997	-3522.188	994.598
190	653	1942.291	-44.832	-333.964	-4830.992	24898.906	1076.531
190	703	-1942.291	44.832	333.964	4830.992	3545.450	-4894.961
191	656	-443.271	97.277	-294.467	4861.063	5352.570	11753.133
191	706	443.271	-97.277	294.467	-4861.063	19745.785	-3468.515
192	701	-803.413	-38.369	-29.227	-1305.685	5514.129	-7948.207
192	801	803.413	38.369	29.227	1305.685	4440.770	-5120.813
193	703	703.725	70.373	-5.852	-1804.696	230.901	14425.027
193	803	-703.725	-70.373	5.852	1804.696	1762.430	9544.711
194	706	112.012	32.194	15.051	3315.230	-4128.414	5892.926
194	806	-112.012	-32.194	-15.051	-3315.230	-998.211	5073.016
195	801	-387.361	3.018	9.162	-156.359	-2816.765	550.161
195	901	387.361	-3.018	-9.162	156.359	-750.287	644.629
196	803	499.503	-12.826	-0.986	-490.083	-299.487	-3653.868
196	903	-499.503	12.826	0.986	490.083	683.475	-1559.450
197	806	-115.110	-12.758	-3.871	1329.909	1504.090	-4200.563
197	906	115.110	12.758	3.871	-1329.909	3.006	-786.174
198	901	-35.694	-3.968	-0.737	-65.092	326.730	-1076.010
198	1001	35.694	3.968	0.737	65.092	-39.740	-468.835
199	903	64.129	-4.000	8.567	-170.364	-2165.149	-180.826
199	1003	-64.129	4.000	-8.567	170.364	-1172.042	-1376.507
200	906	17.691	1.948	5.757	361.450	-825.452	744.401
200	1006	-17.691	-1.948	-5.757	-361.450	-1417.882	13.905
201	401	13774.164	263.184	-439.168	-0.038	48471.574	8898.211
201	510	-13774.164	-263.184	439.168	0.038	-24374.781	5542.480
202	403	5719.191	153.068	884.408	2797.970	50806.090	-16391.012
202	511	-5719.191	-153.068	-884.408	-2797.970	-100366.250	24968.602
203	406	9776.777	-423.873	-6.796	-43.049	34426.574	4995.063

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
203	512	-9776,777	423,873	6,796	43,049	-34053,738	-28250,137
204	510	13773,652	27,223	-52,902	21,007	22989,563	-5105,036
204	710	-13773,652	-27,223	52,902	-21,007	-6900,020	11384,480
205	511	5779,770	-169,469	-310,012	22,965	98070,438	-29642,160
205	711	-5779,770	169,469	310,012	-22,965	-3784,256	-21899,738
206	512	9776,012	51,353	-6,796	-16,971	25937,273	28250,129
206	712	-9776,012	-51,353	6,796	16,971	-23870,395	-12651,461
207	710	13773,620	9,526	-14,937	15,777	3289,451	-5029,633
207	810	-13773,620	-9,526	14,937	-15,777	1798,167	8274,457
208	711	5780,164	17,553	16,272	17,750	-1553,825	12559,461
208	811	-5780,164	-17,553	-16,272	-17,750	-4008,714	-6560,656
209	712	9775,965	73,116	-6,796	-1,362	7960,105	12651,461
209	812	-9775,965	-73,116	6,796	1,362	-5645,340	12273,418
210	810	13773,766	-16,311	25,425	7,003	-4037,274	-4554,520
210	910	-13773,766	16,311	-25,425	-7,003	-5861,047	-2015,715
211	811	5780,141	16,052	15,743	8,571	1434,057	2030,115
211	911	-5780,141	-16,052	-15,743	-8,571	-7563,121	4211,559
212	812	9776,117	-43,988	-6,796	2,316	4514,426	-12273,414
212	912	-9776,117	43,988	6,796	-2,316	-1868,790	-4851,469
213	910	13773,859	37,752	-65,430	5,992	5662,184	2365,740
213	1010	-13773,859	-37,752	65,430	-5,992	19809,770	12331,266
214	911	5780,000	-61,552	-122,606	9,030	8504,683	-2554,082
214	1011	-5780,000	61,552	122,606	-9,030	39225,730	-21408,587
215	912	9776,023	41,056	-6,796	1,641	2492,498	4851,461
215	1012	-9776,023	-41,056	6,796	-1,641	153,136	11132,090
216	1010	13773,703	-65,509	109,819	0,000	-20028,094	-11947,063
216	1110	-13773,703	65,509	-109,819	-0,000	0,000	0,000
217	1011	5780,285	125,991	210,197	-0,000	-38334,313	22977,285
217	1111	-5780,285	-125,991	-210,197	0,000	0,000	0,000
218	1012	9776,145	-61,043	-6,796	0,000	1239,296	-11132,090
218	1112	-9776,145	61,043	6,796	-0,000	0,000	-0,000

RESULTANT JOINT LOADS = SUPPORTS

JOINT		FORCE			MOMENT		
		X FORCE	Y FORCE	Z FORCE	X MOMENT	Y MOMENT	Z MOMENT
1110	GLOBAL	-2074,587	1198,141	13564,355	0,000	0,000	0,000
1111	GLOBAL	618,791	349,859	5741,641	0,000	0,000	-0,000
1112	GLOBAL	6,796	-1548,020	9652,996	-0,000	0,000	0,000
		-1,449.000	0.000	28,958.992			

RESULTANT JOINT DISPLACEMENTS = SUPPORTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1110	GLOBAL	0.0	0.0	0.0	0.000	0.000	0.000
1111	GLOBAL	0.0	0.0	0.0	-0.000	0.000	0.000
1112	GLOBAL	0.0	0.0	0.0	0.000	0.000	-0.000

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1010	GLOBAL	0.001	-0.000	-0.000	0.000	0.000	0.000
1007	GLOBAL	0.002	0.000	-0.004	0.000	0.000	0.000
910	GLOBAL	0.003	-0.001	-0.001	-0.000	0.000	0.000
1001	GLOBAL	0.002	0.000	-0.004	0.000	0.000	0.000
907	GLOBAL	0.004	0.000	-0.003	-0.000	0.000	0.000
810	GLOBAL	0.004	-0.001	-0.002	-0.000	0.000	0.000
1002	GLOBAL	0.002	0.000	-0.003	0.000	0.000	0.000
1004	GLOBAL	0.002	0.000	-0.005	-0.000	0.000	0.000
901	GLOBAL	0.004	0.000	-0.003	-0.000	0.000	0.000
807	GLOBAL	0.005	0.000	-0.003	-0.000	0.000	0.000
710	GLOBAL	0.005	-0.000	-0.002	-0.000	0.000	0.000
1003	GLOBAL	0.002	-0.000	-0.001	-0.000	0.000	0.000
1005	GLOBAL	0.002	-0.000	-0.002	0.000	0.000	0.000
903	GLOBAL	0.004	-0.000	-0.002	0.000	0.000	0.000
1006	GLOBAL	0.002	0.000	-0.005	-0.000	0.000	0.000
906	GLOBAL	0.003	0.000	-0.005	0.000	0.000	-0.000
902	GLOBAL	0.004	0.000	-0.005	-0.000	0.000	0.000
904	GLOBAL	0.004	0.000	-0.003	-0.000	0.000	0.000
806	GLOBAL	0.005	0.000	-0.003	-0.000	0.000	-0.000
801	GLOBAL	0.005	0.000	-0.005	-0.000	0.000	0.000
707	GLOBAL	0.006	0.000	-0.003	-0.000	0.000	0.000
510	GLOBAL	0.007	0.001	-0.002	-0.000	0.000	0.000
1008	GLOBAL	0.002	-0.000	-0.001	-0.000	0.000	0.000
908	GLOBAL	0.004	-0.000	-0.002	-0.000	0.000	0.000
905	GLOBAL	0.004	-0.000	-0.002	0.000	0.000	0.000
803	GLOBAL	0.005	-0.000	-0.002	-0.000	0.000	0.000
1009	GLOBAL	0.002	0.000	-0.005	-0.000	0.000	0.000
909	GLOBAL	0.003	0.000	-0.005	0.000	0.000	-0.000
809	GLOBAL	0.005	0.000	-0.003	-0.000	0.000	-0.000
805	GLOBAL	0.005	0.000	-0.002	0.000	0.000	0.000
808	GLOBAL	0.005	0.000	-0.005	-0.000	0.000	0.000
706	GLOBAL	0.006	0.001	-0.002	-0.000	0.000	-0.000

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X RUT	Y RUT	Z RUT
701	GLOBAL	0.006	0.000	-0.003	-0.000	0.000	0.000
802	GLOBAL	0.005	0.000	-0.003	-0.000	0.000	0.000
703	GLOBAL	0.006	0.000	-0.002	0.000	0.000	0.000
507	GLOBAL	0.007	0.001	-0.003	-0.000	0.000	0.000
401	GLOBAL	0.007	0.001	-0.003	-0.000	0.000	0.000
1011	GLOBAL	0.002	0.001	-0.001	-0.000	0.000	0.000
911	GLOBAL	0.003	0.001	-0.001	0.000	0.000	0.000
808	GLOBAL	0.005	-0.000	-0.002	-0.000	0.000	0.000
1012	GLOBAL	0.001	-0.000	-0.000	0.000	0.000	-0.000
912	GLOBAL	0.002	-0.000	-0.001	-0.000	0.000	-0.000
812	GLOBAL	0.003	-0.000	-0.002	-0.000	0.000	-0.000
709	GLOBAL	0.006	0.001	-0.002	-0.000	0.000	-0.000
656	GLOBAL	0.006	0.001	-0.002	-0.000	0.000	-0.000
705	GLOBAL	0.006	0.001	-0.002	0.000	0.000	0.000
704	GLOBAL	0.006	0.000	-0.003	-0.000	0.000	-0.000
503	GLOBAL	0.008	0.000	-0.003	0.000	0.000	0.000
702	GLOBAL	0.006	0.000	-0.003	0.000	0.000	-0.000
651	GLOBAL	0.006	0.000	-0.003	-0.000	0.000	0.000
506	GLOBAL	0.007	0.000	-0.002	0.000	0.000	-0.000
708	GLOBAL	0.006	0.000	-0.002	0.000	0.000	0.000
653	GLOBAL	0.006	0.000	-0.002	0.000	0.000	0.000
501	GLOBAL	0.007	0.001	-0.003	-0.000	0.000	0.000
301	GLOBAL	0.020	0.000	-0.004	-0.000	0.000	0.000
811	GLOBAL	0.004	0.001	-0.002	0.000	0.000	0.000
712	GLOBAL	0.005	0.001	-0.002	-0.000	0.000	-0.000
515	GLOBAL	0.007	0.000	-0.002	0.000	0.000	-0.000
508	GLOBAL	0.008	0.000	-0.002	0.000	0.000	0.000
514	GLOBAL	0.008	0.000	-0.002	0.000	0.000	0.000
403	GLOBAL	0.009	0.000	-0.003	0.000	0.000	0.000
603	GLOBAL	0.007	0.000	-0.002	0.000	0.000	0.000
502	GLOBAL	0.007	0.000	-0.003	-0.000	-0.000	0.000
505	GLOBAL	0.007	0.000	-0.003	0.000	0.000	0.000
513	GLOBAL	0.007	0.001	-0.003	-0.000	0.000	0.000
661	GLOBAL	0.006	0.000	-0.003	-0.000	0.000	0.000
601	GLOBAL	0.007	0.000	-0.003	-0.000	0.000	0.000
509	GLOBAL	0.007	0.000	-0.002	0.000	0.000	-0.000
406	GLOBAL	0.008	0.000	-0.003	0.000	0.000	-0.000
504	GLOBAL	0.007	0.001	-0.003	-0.000	0.000	0.000
711	GLOBAL	0.006	0.001	-0.002	0.000	0.000	0.000
663	GLOBAL	0.006	0.000	-0.002	0.000	0.000	0.000
206	GLOBAL	0.021	0.001	-0.004	0.000	0.000	-0.000
303	GLOBAL	0.020	-0.000	-0.004	0.000	0.000	0.000
306	GLOBAL	0.019	0.001	-0.004	-0.000	0.000	-0.000
201	GLOBAL	0.022	0.001	-0.005	-0.000	0.000	0.000

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
512	GLOBAL	0.007	0.000	-0.002	0.000	0.000	-0.000
511	GLOBAL	0.008	0.000	-0.003	0.000	0.000	0.000
613	GLOBAL	0.007	0.000	-0.002	-0.000	0.000	-0.000
612	GLOBAL	0.006	0.000	-0.003	0.000	0.000	-0.000
611	GLOBAL	0.007	0.000	-0.003	-0.000	0.000	0.000
108	GLOBAL	0.023	0.000	-0.005	0.000	0.000	-0.000
205	GLOBAL	0.022	-0.000	-0.004	0.000	0.000	0.000
204	GLOBAL	0.022	0.001	-0.005	-0.000	0.000	0.000
203	GLOBAL	0.023	-0.001	-0.004	0.000	0.000	0.000
101	GLOBAL	0.025	0.001	-0.005	-0.000	0.000	0.000
202	GLOBAL	0.022	0.000	-0.004	-0.000	-0.000	0.000
612	GLOBAL	0.007	0.000	-0.003	0.000	0.000	0.000
105	GLOBAL	0.024	-0.000	-0.005	0.000	-0.000	0.000
104	GLOBAL	0.024	0.001	-0.005	-0.000	0.000	0.000
103	GLOBAL	0.025	-0.001	-0.004	0.000	0.000	0.000
102	GLOBAL	0.025	0.000	-0.004	-0.000	-0.000	0.000

LOADING = 6 VIBRATION IN Y-DIRECTION (COMBINED LOADS)

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
41	101	130.633	-5.253	-553.559	4.679	47157.496	-663.271
41	102	-130.633	5.253	553.559	-4.679	49161.844	-250.737
42	102	134.774	1.896	525.857	-5.794	-49236.637	156.161
42	103	-134.774	-1.896	-525.857	5.794	-42262.539	173.657
43	103	277.626	-0.975	411.508	-0.486	-22607.660	-122.498
43	105	-277.626	0.975	-411.508	0.486	-48965.289	-47.055
44	105	496.762	0.511	-660.376	2.911	49220.441	73.487
44	106	-496.762	-0.511	660.376	-2.911	65703.000	15.466
45	101	667.855	-5.417	-408.170	2.405	24617.492	-681.556
45	104	-667.855	5.417	408.170	-2.405	46372.855	-260.625
46	104	888.986	1.867	665.892	-1.506	-46856.926	166.483
46	106	-888.986	-1.867	-665.892	1.506	-69026.458	158.389
47	102	76.056	-0.610	2.358	-0.491	80.429	-51.199
47	104	-76.056	0.610	-2.358	0.491	-490.599	-54.918
48	102	69.438	0.348	-1.920	0.574	68.950	43.377
48	105	-69.438	-0.348	1.920	-0.574	264.923	17.145
49	104	-142.614	0.279	-1.308	-0.229	476.527	39.224

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
49	105	142,614	-0,279	1,308	0,229	-248,906	9,287
50	201	-2390,320	-3,052	-544,853	3,210	47627,852	-456,832
50	202	2390,320	3,052	544,853	-3,210	47176,551	-74,297
51	202	-2393,463	1,543	533,686	-2,806	-47158,293	101,602
51	203	2393,463	-1,543	-533,686	2,806	-45703,023	166,886
52	203	-3085,592	-1,096	471,273	-0,944	-34151,609	-36,249
52	205	3085,592	1,096	-471,273	0,944	-47813,954	-154,445
53	205	-2877,788	5,238	-601,809	1,462	48029,262	387,176
53	206	2877,788	-5,238	601,809	-1,462	56701,980	524,339
54	201	3745,712	-1,044	-456,819	1,865	32261,746	-360,205
54	204	-3745,712	1,044	456,819	-1,865	47189,848	178,580
55	204	3946,590	-4,693	616,925	-0,326	-47556,391	-353,467
55	206	-3946,590	4,693	-616,925	0,326	-59805,000	-463,219
56	202	62,875	-0,059	2,239	-0,443	-14,971	30,160
56	204	-62,875	0,059	-2,239	0,443	-374,366	-40,503
57	202	70,144	0,511	-1,161	0,590	-21,438	2,856
57	205	-70,144	-0,511	1,161	-0,590	223,404	85,936
58	204	-133,967	1,616	-0,868	-0,109	357,939	134,384
58	205	133,967	-1,616	0,868	0,109	-206,875	146,795
59	201	336,304	-16,899	8,840	-2282,343	-1287,728	-2844,700
59	303	-336,304	16,899	-8,840	2282,343	-2175,886	-3776,369
60	203	9001,617	-38,857	-51,825	1417,495	8772,594	-5482,512
60	306	-9001,617	38,857	51,825	-1417,495	11529,922	-9739,781
61	206	-8957,934	-20,359	50,074	1837,857	-7912,402	-2371,782
61	301	8957,934	20,359	-50,074	-1837,857	-11704,348	-5603,910
62	301	1725,250	-14,700	2,183	-27,915	414,887	-3707,412
62	303	-1725,250	14,700	-2,183	27,915	-1174,537	-1408,056
63	303	-5566,742	9,012	-130,410	30,392	22480,789	1455,936
63	305	5566,742	-9,012	130,410	-30,392	22895,418	1679,937
64	301	3854,275	-34,179	137,706	408,228	-23593,203	-6984,215
64	306	-3854,275	34,179	-137,706	-408,228	-24521,648	-4908,523
65	301	78,112	-66,252	14,277	6536,551	-2267,020	-13063,105
65	302	-78,112	66,252	-14,277	-6536,551	-328,483	1018,495
66	302	-25,237	-54,035	-25,309	-5700,176	848,294	-2690,216
66	303	25,237	54,035	25,309	5700,176	5752,878	-7133,434
67	303	-4277,609	-7,999	-160,896	-3035,076	30560,355	4334,219
67	305	4277,609	7,999	160,896	3035,076	-1309,951	-5788,340
68	305	-3758,023	224,075	-216,272	1539,314	6037,320	16145,465
68	306	3758,023	-224,075	216,272	-1539,314	33280,328	24590,730
69	301	16537,570	-90,954	148,280	2559,973	-29933,500	-17733,941
69	304	-16537,570	90,954	-148,280	-2559,973	2976,636	1198,709
70	304	16754,422	-153,001	202,017	-2964,409	-6800,215	-10099,176
70	306	-16754,422	153,001	-202,017	2964,409	-29925,902	-17716,000
71	302	-1,937	-18,866	-31,889	-3053,105	5075,656	-516,758

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
71	504	1,937	18,866	31,889	3053,105	721,642	-2912,950
72	502	286,164	28,138	30,871	2799,094	-5675,313	1154,964
72	505	-286,164	-28,138	-30,871	-2799,094	63,100	3960,387
73	501	3624,932	5,534	57,971	-88189,625	-1188,069	-233,997
73	507	-3624,932	-5,534	-57,971	88189,625	51,791	341,605
74	507	-3621,022	0,0	0,0	88190,375	0,0	0,0
74	510	3621,022	0,0	0,0	-88190,375	0,0	0,0
75	503	6290,016	4,495	-48,295	28428,371	1480,884	26,745
75	508	-6290,016	-4,495	48,295	-28428,371	-10,248	110,118
76	508	-6286,129	0,0	0,0	-28428,590	0,0	0,0
76	511	6286,129	0,0	0,0	28428,590	0,0	0,0
77	506	-3486,190	-10,400	0,000	-45347,348	176,699	-316,168
77	509	3486,190	10,400	-0,000	45347,348	-176,699	-0,000
78	509	3492,152	0,0	0,0	45347,691	0,0	0,0
78	512	-3492,152	0,0	0,0	-45347,691	0,0	0,0
79	501	108,169	-76,619	-629,370	-829,705	12054,559	-3085,812
79	513	-108,169	76,619	629,370	829,705	10549,906	333,980
80	503	94,471	-125,613	21,538	1785,616	2813,558	-2137,049
80	514	-94,471	125,613	-21,538	-1785,616	-3587,114	-2374,465
81	506	-656,047	45,867	6190,715	609,675	-146164,438	-82,319
81	515	656,047	-45,867	-6190,715	-609,675	-76701,313	1733,538
82	513	1570,668	-38,513	55,205	333,980	-8713,535	-6005,273
82	651	-1570,668	38,513	-55,205	-333,980	-3210,761	-2313,477
83	514	962,837	-74,045	-18,797	2374,465	2209,209	-3342,933
83	653	-962,837	74,045	18,797	-2374,465	1850,987	-12650,813
84	515	-5249,188	-576,047	-45,867	1733,538	609,675	-76701,313
84	656	5249,188	576,047	45,867	-1733,538	9297,641	-47724,875
85	601	-420,430	-7,463	1380,720	-16234,504	-61894,234	8467,492
85	611	420,430	7,463	-1380,720	16234,504	-37517,594	-9004,832
86	603	-424,635	-11,690	1268,833	15774,293	-55022,195	-7703,148
86	613	424,635	11,690	-1268,833	-15774,293	-36333,828	6861,492
87	651	701,182	-181,853	2204,144	-13217,516	-88041,938	2801,588
87	661	-701,182	181,853	-2204,144	13217,516	-44206,648	-13712,758
88	653	840,883	201,006	2311,648	12309,629	-94891,500	1333,592
88	663	-840,883	-201,006	-2311,648	-12309,629	-43807,332	10726,750
89	611	737,367	-46,088	-724,038	-584,438	67097,250	-4379,488
89	612	-737,367	46,088	724,038	584,438	72004,688	-4474,938
90	612	740,028	32,006	722,016	464,856	-71820,875	4365,629
90	613	-740,028	-32,006	-722,016	-464,856	-66892,563	1783,263
91	661	-548,051	-61,665	-549,149	-1001,229	57024,168	-6784,820
91	662	548,051	61,665	549,149	1001,229	59878,664	-6542,309
92	662	-550,712	51,242	546,789	960,001	-59679,219	6451,609
92	663	550,712	-51,242	-546,789	-960,001	-56721,254	4456,746
93	611	601,737	556,517	650,699	692,013	-50862,836	37215,219

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
93	661	-601,737	-556,517	-650,699	-692,013	-43806,645	43751,867
94	612	-212,673	20,906	2,662	109,304	-183,818	1049,294
94	662	212,673	-20,906	-2,662	-109,304	-199,447	1961,231
95	613	713,590	546,641	-656,614	-91,916	51118,579	36226,547
95	663	-713,590	-546,641	656,614	91,916	44411,617	45303,559
96	501	-486,699	-134,516	4,265	-4938,484	-5344,425	-30271,426
96	703	486,699	134,516	-4,265	4938,484	1185,781	-37816,285
97	503	29649,746	-93,511	-186,376	-2146,713	39512,273	-22132,832
97	706	-29649,746	93,511	186,376	2146,713	54827,301	-25049,262
98	506	-19674,684	-16,803	141,387	3307,500	-30464,137	-6003,758
98	701	19674,684	16,803	-141,387	-3307,500	-41096,457	-2500,972
99	701	-1057,537	-57,255	-6,190	1164,483	1236,609	-9121,355
99	702	1057,537	57,255	6,190	-1164,483	156,969	-3767,930
100	504	-177,534	68,120	1,329	352,553	3691,176	5987,516
100	505	177,534	-68,120	-1,329	-352,553	-3932,719	6396,730
101	702	-1046,371	-3,442	-1,283	-4150,528	-664,891	1341,423
101	703	1046,371	3,442	1,283	4150,528	953,785	-2116,371
102	703	-7316,789	18,831	-80,481	-2119,214	17454,828	4101,775
102	705	7316,789	-18,831	80,481	2119,214	657,540	136,079
103	705	-6979,504	44,439	-106,864	-1134,986	3936,936	3555,437
103	706	6979,504	-44,439	106,864	1134,986	20123,949	6450,238
104	701	1176,354	-41,456	11,667	461,656	-4696,586	-7929,699
104	704	-1176,354	41,456	-11,667	-461,656	2071,031	-1400,116
105	704	1440,625	-48,502	47,649	-3556,935	-2554,992	-3679,119
105	706	-1440,625	48,502	-47,649	3556,935	-8173,332	-7241,285
106	702	70,597	-16,397	-17,968	-1472,330	2531,663	-1391,339
106	704	-70,597	16,397	17,968	1472,330	1512,098	-2298,791
107	702	95,600	10,939	-0,429	1640,814	-1807,875	1035,169
107	705	-95,600	-10,939	0,429	-1640,814	1904,508	1426,767
108	704	-187,460	22,411	4,399	1016,682	1690,559	2780,444
108	705	187,460	-22,411	-4,399	-1016,682	-2680,867	2264,748
109	701	3245,872	3,397	36,503	-66515,958	-1135,546	-154,205
109	707	-3245,872	-3,397	-36,503	66515,958	23,978	257,651
110	707	-3241,960	0,0	0,0	66516,438	0,0	0,0
110	710	3241,960	0,0	0,0	-66516,438	0,0	0,0
111	703	-3520,471	0,958	-10,293	190558,875	382,144	-708,964
111	708	3520,471	-0,958	10,293	-190558,875	-68,694	758,135
112	708	3524,436	0,0	0,0	-190560,313	0,0	0,0
112	711	-3524,436	0,0	0,0	190560,313	0,0	0,0
113	708	9358,836	-60,459	0,000	109796,875	-427,830	-1838,004
113	709	-9358,836	60,459	-0,000	-109796,875	427,830	-0,000
114	709	-9354,973	0,0	0,0	-109797,688	0,0	0,0
114	712	9354,973	0,0	0,0	109797,688	0,0	0,0
115	701	21452,207	-28,581	48,671	-7985,930	-17549,262	3664,546

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
115	806	-21452,207	28,381	-48,671	7985,930	-11746,809	-20747,547
116	703	2945,259	31,658	-30,868	1608,093	8179,496	4156,246
116	801	-2945,259	-31,658	30,868	-1608,093	10400,016	14918,430
117	701	747,165	23,994	7,551	-8598,520	-3320,773	20726,055
117	803	-747,165	-23,994	-7,551	8598,520	-1224,324	-6284,141
118	801	-725,199	65,447	414,767	441,827	-54682,887	14352,691
118	802	725,199	-65,447	-414,767	-441,827	-58747,520	2998,912
119	802	-822,653	57,181	-419,500	-11837,657	56825,531	5906,620
119	803	822,653	-57,181	419,500	11837,657	57899,328	11731,211
120	803	-9284,086	-56,320	-605,455	-6599,289	108973,500	-9899,086
120	805	9284,086	56,320	605,455	6599,289	56608,719	-5505,609
121	805	-8848,516	-18,849	161,866	-5273,890	-49734,590	2427,127
121	806	8848,516	18,849	-161,866	5273,890	5457,051	-7583,109
122	801	4981,301	84,865	436,926	-251,961	-67663,688	15666,035
122	804	-4981,301	-84,865	-436,926	251,961	-51828,547	7543,090
123	804	5404,941	8,167	-298,942	-10535,926	51897,602	-3987,210
123	806	-5404,941	-8,167	298,942	10535,926	29876,418	6221,332
124	802	89,858	22,305	-44,857	-2405,583	6908,352	3622,278
124	804	-89,858	-22,305	44,857	2405,583	5356,672	2479,042
125	802	212,577	-19,569	10,337	3024,052	-4136,074	-3283,249
125	805	-212,577	19,569	-10,337	-3024,052	1308,347	-2069,824
126	804	-305,565	-7,615	1,524	1657,364	5918,656	-1076,858
126	805	305,565	7,615	-1,524	-1657,364	-4355,609	-1006,663
127	801	3432,601	5,464	37,226	171296,125	-1071,845	769,015
127	807	-3432,601	-5,464	-37,226	-171296,125	-61,749	-663,519
128	807	-3428,690	0,0	0,0	-171297,438	0,0	0,0
128	810	3428,690	0,0	0,0	171297,438	0,0	0,0
129	803	8434,500	5,268	-56,601	111452,875	1763,766	-271,312
129	808	-8434,500	-5,268	56,601	-111452,875	-40,177	431,715
130	808	-8430,629	0,0	0,0	-111453,750	0,0	0,0
130	811	8430,629	0,0	0,0	111453,750	0,0	0,0
131	806	-1084,899	-19,765	0,000	223093,188	-869,296	-600,857
131	809	1084,899	19,765	-0,000	-223093,188	869,296	-0,000
132	809	1088,844	0,0	0,0	-223094,938	0,0	0,0
132	812	-1088,844	0,0	0,0	223094,938	0,0	0,0
133	801	-181,653	59,299	10,364	-1617,575	-1307,994	18630,137
133	903	181,653	-39,299	-10,364	1617,575	-6104,527	9476,766
134	803	26658,660	-107,975	-49,220	-2201,158	19477,051	-42296,906
134	906	-26658,660	107,975	49,220	2201,158	15725,004	-34927,047
135	806	-21212,008	-90,746	8,444	-2723,675	1675,404	-35059,793
135	901	21212,008	90,746	-8,444	2723,675	-7714,996	-29864,613
136	901	3848,889	38,335	476,463	3098,449	-76197,563	10011,105
136	902	-3848,889	-38,335	-476,463	-3098,449	-80577,625	2602,769
137	902	3782,104	28,649	-479,761	-2493,659	80827,313	2458,885

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
137	903	-3782.104	-28.649	479.761	2493.659	77033.125	6967.707
138	903	-8205.801	-45.137	-521.120	-2528.636	93104.438	-8110.305
138	905	8205.801	45.137	521.120	2528.636	78329.875	-6738.680
139	905	-7902.578	9.997	406.477	594.788	-76100.563	5117.082
139	906	7902.578	-9.997	-406.477	-594.788	-57661.480	-1827.284
140	901	9309.766	39.332	517.893	2240.853	-93019.188	8379.949
140	904	-9309.766	-39.332	-517.893	-2240.853	-77353.625	4559.203
141	904	9588.207	-0.134	-409.927	-1342.070	75495.875	-3268.845
141	906	-9588.207	0.134	409.927	1342.070	59403.359	3224.697
142	902	62.134	11.488	-9.608	-1513.157	2249.562	2524.810
142	904	-62.134	-11.488	9.608	1513.157	911.077	1254.466
143	902	154.925	-12.046	9.412	1388.188	-2552.538	-2536.842
143	905	-154.925	12.046	-9.412	-1388.188	-565.866	-1426.116
144	904	-193.045	-0.703	0.209	155.760	2278.749	-55.896
144	905	193.045	0.703	-0.209	-155.760	-2347.569	-195.481
145	901	11351.906	6.319	67.902	541456.250	-1872.523	2289.773
145	907	-11351.906	-6.319	-67.902	-541456.250	-195.185	-2097.346
146	907	-11346.655	0.0	0.0	-541460.313	0.0	0.0
146	910	11346.655	0.0	0.0	541460.313	0.0	0.0
147	905	10405.594	5.978	-64.237	-613585.625	1734.972	2558.006
147	908	-10405.594	-5.978	64.237	613585.625	221.114	-2375.967
148	908	-10401.758	0.0	0.0	613590.250	0.0	0.0
148	911	10401.758	0.0	0.0	-613590.250	0.0	0.0
149	906	-8770.441	10.183	0.000	-93075.250	362.673	309.558
149	909	8770.441	-10.183	-0.000	93075.250	-362.673	-0.000
150	909	8774.449	0.0	0.0	93075.938	0.0	0.0
150	912	-8774.449	0.0	0.0	-93075.938	0.0	0.0
151	901	926.551	10.001	-15.766	861.331	5007.320	2884.243
151	1002	-926.551	-10.001	15.766	-861.331	2981.434	2183.189
152	903	1115.624	-8.609	12.269	242.050	-3992.736	-2567.855
152	1002	-1115.624	8.609	-12.269	-242.050	-2224.186	-1794.618
153	903	22184.875	-1.618	13.988	-578.550	-2858.880	-3397.760
153	1005	-22184.875	1.618	-13.988	578.550	-4228.695	2577.817
154	906	-20536.797	20.793	1.958	1184.948	2177.061	2895.461
154	1005	20536.797	-20.793	-1.958	-1184.948	-3169.043	7640.074
155	901	22261.051	12.490	-21.429	1060.154	3394.722	816.060
155	1004	-22261.051	-12.490	21.429	-1060.154	7465.613	5512.434
156	906	-20512.586	1.521	-3.615	902.778	45.793	-3000.614
156	1004	20512.586	-1.521	3.615	-902.778	1785.792	3771.178
157	1001	-5581.785	4.539	-38.701	6945.301	9119.355	3637.318
157	1002	5581.785	-4.539	38.701	-6945.301	5760.398	-1892.348
158	1002	-5688.285	6.507	41.278	-5601.775	-5526.520	1711.569
158	1003	5688.285	-6.507	-41.278	5601.775	-10344.148	790.259
159	1003	-10132.266	10.872	-132.669	-5410.160	36285.324	3246.648

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
159	1005	10132,266	-10,872	132,669	5410,160	14728,918	933,631
160	1005	17780,445	2,394	-39,396	688,393	-1685,197	1912,405
160	1006	-17780,445	-2,394	39,396	-688,393	16853,227	-991,710
161	1001	-9825,305	24,526	112,125	4177,414	-34040,809	7976,469
161	1004	9825,305	-24,526	-112,125	-4177,414	-9071,875	1453,945
162	1004	18151,516	44,476	52,675	-1983,011	-2923,286	5906,047
162	1006	-18151,516	-44,476	-52,675	1983,011	-17330,574	11195,172
163	1002	11,028	7,451	-25,991	-1504,774	5848,938	1256,720
163	1004	-11,028	-7,451	25,991	1504,774	4144,648	1608,277
164	1002	-28,538	-0,544	32,137	1284,520	-7586,332	-350,930
164	1005	28,538	0,544	-32,137	-1284,520	-4770,574	141,680
165	1004	-155,982	-3,512	6,764	275,001	589,475	-1097,349
165	1005	155,982	3,512	-6,764	-275,001	-3190,151	-253,126
166	1001	-14176,324	-2,878	-30,928	591065,563	1154,688	2199,606
166	1007	14176,324	2,878	30,928	-591065,563	-212,874	-2287,261
167	1007	14180,371	0,0	0,0	-591070,063	0,0	0,0
167	1010	-14180,371	0,0	0,0	591070,063	0,0	0,0
168	1003	-14414,660	-2,964	31,851	-608216,000	-1188,949	2263,360
168	1008	14414,660	2,964	-31,851	608216,000	219,051	-2353,628
169	1008	14418,705	0,0	0,0	608220,500	0,0	0,0
169	1011	-14418,705	0,0	0,0	-608220,500	0,0	0,0
170	1006	30746,605	-143,681	-0,000	8657,730	-33,702	-4367,996
170	1009	-30746,605	143,681	0,000	-8657,730	33,702	-0,000
171	1009	-30742,895	0,0	0,0	-8657,793	0,0	0,0
171	1012	30742,895	0,0	0,0	8657,793	0,0	0,0
172	101	7037,754	-45,332	469,599	1344,829	-59473,707	-21310,367
172	201	-7037,754	45,332	-469,599	-1344,829	-25018,063	13150,531
173	103	7013,387	286,987	-274,492	-296,155	53571,727	-19569,898
173	203	-7013,387	-286,987	274,492	296,155	-4163,219	71227,500
174	106	7402,563	1726,345	-194,907	-142,924	1662,675	116687,375
174	206	-7402,563	-1726,345	194,907	142,924	55420,582	194054,563
175	201	20963,277	-2207,263	248,314	5737,141	-37461,656	-41802,074
175	301	-20963,277	2207,263	-248,314	-5737,141	-7234,797	-355505,375
176	203	16910,918	-2876,967	-320,161	-109,667	60253,918	-92794,125
176	303	-16910,918	2876,967	320,161	109,667	-2624,820	-425059,875
177	206	25869,668	-3160,802	338,465	2727,442	-25398,246	-88031,563
177	306	-25869,668	3160,802	-338,465	-2727,442	-35525,582	-480912,688
178	301	26386,504	2368,863	-25,054	19851,086	24230,809	387042,125
178	401	-26386,504	-2368,863	25,054	-19851,086	-16346,473	423108,875
179	303	26673,031	2745,448	-116,395	12922,973	-5293,098	448144,625
179	403	-26673,031	-2745,448	116,395	-12922,973	45106,504	490258,688
180	306	40056,293	3420,688	-328,445	9574,082	30440,648	555582,313
180	406	-40056,293	-3420,688	328,445	-9574,082	81867,438	634292,813
181	401	17432,227	9523,895	-2755,295	-42207,254	-36837,461	148965,500

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
181	501	-17432.227	-9325.895	2755.295	42207.254	187691.563	361523.813
182	403	17183.859	9870.234	5265.277	109546.875	-77128.500	67905.875
182	503	-17183.859	-9870.234	-5265.277	-109546.875	-217314.375	484054.250
183	406	-134602.188	-2576.988	-286.317	-4275.566	50822.383	-242597.063
183	506	134602.188	2576.988	286.317	4275.566	-35147.969	112469.125
184	501	21150.516	-1615.892	1789.089	17557.980	-217959.250	-250308.500
184	601	-21150.516	1615.892	-1789.089	-17557.980	87386.438	132376.063
185	503	4520.254	-4686.805	-1748.191	77737.750	183605.750	-395133.188
185	603	-4520.254	4686.805	1748.191	-77737.750	-56017.781	53076.250
186	506	-111939.688	-2428.767	-2178.718	51463.480	92764.750	-186351.813
186	656	111939.688	2428.767	2178.718	-51463.480	384329.500	-345498.188
187	601	26516.141	-748.526	998.521	35938.223	-102160.125	-72351.875
187	651	-26516.141	748.526	-998.521	-35938.223	-43606.688	-36940.051
188	603	9773.078	-3832.807	-968.576	61061.676	70469.375	350.840
188	653	-9773.078	3832.807	968.576	-61061.676	70896.813	-559874.688
189	651	35182.238	1477.939	-86.965	52910.336	34938.695	125859.188
189	701	-35182.238	-1477.939	86.965	-52910.336	-27551.723	39.598
190	653	17946.293	-1694.510	36.348	47528.328	-61559.512	666910.688
190	703	-17946.293	1694.510	-36.348	-47528.328	58443.750	-811235.438
191	656	-110963.688	-2015.351	-2224.585	51463.406	-393809.438	593223.063
191	706	110963.688	2015.351	2224.585	-51463.406	585266.750	-564860.938
192	701	15231.059	-154.179	-415.981	68497.563	46690.113	65552.758
192	801	-15231.059	154.179	415.981	-68497.563	94998.188	-116048.063
193	703	18996.047	4890.352	-81.188	80067.813	21161.008	1024511.813
193	803	-18996.047	-4890.352	81.188	-80067.813	6492.460	641202.188
194	706	-85958.688	2622.877	4010.012	76658.750	-747590.250	629920.688
194	806	85958.688	-2622.877	-4010.012	-76658.750	-618506.438	263487.750
195	801	22241.617	-365.948	-397.594	36502.254	67752.938	11866.832
195	901	-22241.617	365.948	397.594	-36502.254	87058.125	-154337.438
196	803	11126.426	-1506.033	543.408	34625.879	-73282.375	-385839.438
196	903	-11126.426	1506.033	-543.408	-34625.879	-138276.750	-200488.063
197	806	-57940.473	-1016.794	-1295.537	36449.895	371161.875	-229547.563
197	906	57940.473	1016.794	1295.537	-36449.895	133125.313	-166300.513
198	901	-492.146	-1743.200	-1528.057	5769.836	299921.375	-204038.188
198	1001	492.146	1743.200	1528.057	-5769.836	294954.438	-474592.938
199	903	-415.512	-1903.831	1492.243	3548.305	-277937.438	-251540.875
199	1003	415.512	1903.831	-1492.243	-3548.305	-302995.625	-489624.375
200	906	-8069.445	328.590	149.077	12154.813	-50524.516	101368.438
200	1006	8069.445	-328.590	-149.077	-12154.813	-7512.465	26555.020
201	401	15107.188	-3579.943	-2018.694	334.550	49740.395	-570565.063
201	510	-15107.188	3579.943	2018.694	-334.550	61023.504	385110.563
202	403	14886.277	-3635.403	3387.851	35542.926	43735.434	-537299.125
202	511	-14886.277	3635.403	-3387.851	-35542.926	-233582.563	333579.625
203	406	181601.750	-1064.276	-42.127	305.105	-135169.500	-391695.625

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
203	512	-181601.750	1064.276	42.127	-305.105	135480.750	333305.813
204	510	24661.035	-2828.949	-278.364	257.404	-17464.324	-461786.063
204	710	-24661.035	2828.949	278.364	-257.404	102125.313	-398603.188
205	511	24751.891	-4349.523	-2230.414	-214.767	216634.063	-362188.250
205	711	-24751.891	4349.523	2230.414	214.767	461718.375	-960664.813
206	512	191552.125	-4719.770	-42.127	291.518	-180828.563	-555505.188
206	712	-191552.125	4719.770	42.127	-291.518	193641.313	-1102186.000
207	710	43103.988	-548.770	-140.437	169.877	-69277.625	540768.063
207	810	-43103.988	548.770	140.437	-169.877	117112.250	-527685.625
208	711	43203.238	1275.536	3514.577	-52.773	-555829.188	795003.438
208	811	-43203.238	-1275.536	-3514.577	52.773	-641277.313	-361222.188
209	712	210566.625	3923.942	-42.127	194.214	-83843.500	1102186.000
209	812	-210566.625	-3923.942	42.127	-194.214	98192.875	234391.438
210	810	65293.621	1635.985	-437.342	471.895	-201701.250	676628.750
210	910	-65293.621	-1635.985	437.342	-471.895	371966.875	-59708.465
211	811	65386.680	987.139	-537.525	-509.917	546196.688	264356.250
211	911	-65386.680	-987.139	537.525	509.917	-377005.625	119955.688
212	812	235265.125	1014.898	-42.127	-91.097	124901.688	-234391.563
212	912	-235265.125	-1014.898	42.127	91.097	-108501.063	629501.313
213	910	87606.563	-875.180	6200.414	-42.149	-639459.125	510472.188
213	1010	-87606.563	875.180	-6200.414	42.149	-1774374.000	-851181.500
214	911	87700.250	-1056.552	-6352.320	22.228	680028.625	413347.375
214	1011	-87700.250	1056.552	6352.320	-22.228	1792942.000	-824664.875
215	912	255903.375	-10272.145	-42.127	10.199	15425.230	-629499.250
215	1012	-255903.375	10272.145	42.127	-10.199	975.287	-5369545.000
216	1010	101135.250	7484.879	-8128.480	-0.000	1482414.000	1365058.000
216	1110	-101135.250	-7484.879	8128.480	0.000	-0.000	-0.000
217	1011	101229.063	7421.242	8183.828	0.000	-1492508.000	1353432.000
217	1111	-101229.063	-7421.242	-8183.828	-0.000	0.000	0.000
218	1012	269445.938	18476.980	-42.127	-0.000	7682.500	5369545.000
218	1112	-269445.938	-18476.980	42.127	0.000	0.000	-0.000

RESULTANT JOINT LOADS = SUPPORTS

JOINT		FORCE			MOMENT		
		X FORCE	Y FORCE	Z FORCE	X MOMENT	Y MOMENT	Z MOMENT
1110	GLOBAL	-6484.153	858.765	104600.063	-0.000	-0.000	-0.000
1111	GLOBAL	6442.008	929.901	104695.375	0.000	0.000	-0.000
1112	GLOBAL	42.127	-62550.660	265808.750	-0.000	0.000	0.000
		0.002	-60761.994	475,104.188			

RESULTANT JOINT DISPLACEMENTS - SUPPORTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1110	GLOBAL	0.0	0.0	0.0	-0.001	-0.000	-0.000
1111	GLOBAL	0.0	0.0	0.0	-0.001	0.000	-0.000
1112	GLOBAL	0.0	0.0	0.0	-0.001	0.000	-0.000

RESULTANT JOINT DISPLACEMENTS - FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1010	GLOBAL	-0.038	0.095	-0.018	-0.000	-0.000	-0.000
1007	GLOBAL	0.009	0.177	-0.018	-0.000	0.000	-0.000
910	GLOBAL	-0.012	0.205	-0.029	-0.000	0.000	-0.000
1001	GLOBAL	0.008	0.176	-0.021	-0.000	0.000	0.000
907	GLOBAL	0.002	0.230	-0.025	-0.000	0.000	0.000
810	GLOBAL	0.007	0.268	-0.034	-0.000	0.000	-0.000
1002	GLOBAL	0.006	0.167	-0.023	-0.000	-0.000	0.000
1004	GLOBAL	-0.006	0.173	-0.047	-0.000	0.000	0.000
901	GLOBAL	0.002	0.229	-0.026	-0.000	0.000	0.000
807	GLOBAL	0.005	0.264	-0.032	-0.000	0.000	-0.000
710	GLOBAL	0.009	0.285	-0.038	0.000	-0.000	-0.000
1003	GLOBAL	0.003	0.149	-0.023	-0.000	-0.000	0.000
1005	GLOBAL	-0.006	0.160	-0.041	-0.000	-0.000	0.000
903	GLOBAL	0.005	0.198	-0.028	-0.000	-0.000	0.000
1006	GLOBAL	-0.018	0.157	-0.069	-0.000	0.000	0.000
906	GLOBAL	-0.010	0.214	-0.058	-0.000	0.000	0.000
902	GLOBAL	0.004	0.214	0.021	-0.000	-0.000	0.000
904	GLOBAL	-0.006	0.220	0.001	-0.000	0.000	0.000
806	GLOBAL	-0.001	0.257	-0.041	-0.000	0.000	-0.000
801	GLOBAL	0.005	0.264	-0.033	-0.000	0.000	-0.000
707	GLOBAL	0.004	0.276	-0.036	-0.000	-0.000	-0.000
510	GLOBAL	0.004	0.282	-0.039	-0.000	-0.000	-0.000
1008	GLOBAL	0.003	0.149	-0.021	-0.000	-0.000	0.000
908	GLOBAL	0.006	0.198	-0.026	-0.000	-0.000	0.000
905	GLOBAL	-0.006	0.208	0.002	-0.000	-0.000	0.000
803	GLOBAL	0.005	0.246	-0.034	-0.000	-0.000	0.000
1009	GLOBAL	-0.018	0.157	-0.074	-0.000	0.000	0.000
909	GLOBAL	-0.009	0.215	-0.062	-0.000	0.000	0.000
809	GLOBAL	-0.000	0.257	-0.045	-0.000	0.000	-0.000
805	GLOBAL	-0.000	0.253	-0.016	0.000	-0.000	0.000
804	GLOBAL	-0.000	0.259	-0.015	-0.000	0.000	0.000
708	GLOBAL	0.048	0.301	-0.019	-0.000	0.000	-0.000

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
701	GLOBAL	0.005	0.278	-0.037	-0.000	-0.000	-0.000
802	GLOBAL	0.005	0.256	-0.010	-0.000	-0.000	0.000
703	GLOBAL	0.004	0.320	-0.043	-0.000	-0.000	-0.000
507	GLOBAL	0.003	0.280	-0.038	-0.000	-0.000	-0.000
401	GLOBAL	0.003	0.283	-0.040	-0.000	-0.000	-0.000
1011	GLOBAL	0.036	0.093	-0.018	-0.000	0.000	-0.000
911	GLOBAL	0.003	0.202	-0.027	-0.000	-0.000	-0.000
808	GLOBAL	0.005	0.247	-0.031	-0.000	0.000	0.000
1012	GLOBAL	0.004	0.142	0.012	-0.000	0.000	-0.000
912	GLOBAL	0.013	0.203	0.007	-0.000	0.000	-0.000
812	GLOBAL	0.029	0.250	0.002	-0.000	0.000	-0.000
709	GLOBAL	0.051	0.301	-0.020	-0.000	0.000	-0.000
656	GLOBAL	0.051	0.303	-0.017	-0.000	0.000	-0.000
705	GLOBAL	0.024	0.312	-0.033	0.000	-0.000	-0.000
704	GLOBAL	0.024	0.289	-0.030	0.000	0.000	-0.000
503	GLOBAL	0.004	0.322	-0.044	-0.000	-0.000	-0.000
702	GLOBAL	0.004	0.300	-0.040	0.000	-0.000	-0.000
651	GLOBAL	0.004	0.279	-0.038	-0.000	-0.000	-0.000
506	GLOBAL	0.049	0.298	-0.012	0.000	0.000	-0.000
708	GLOBAL	0.003	0.323	-0.041	-0.000	0.000	-0.000
653	GLOBAL	0.004	0.324	-0.043	-0.000	-0.000	-0.000
501	GLOBAL	0.004	0.281	-0.039	-0.000	-0.000	-0.000
301	GLOBAL	-0.002	0.322	-0.043	-0.000	-0.000	-0.000
811	GLOBAL	-0.015	0.280	-0.034	-0.000	0.000	-0.000
712	GLOBAL	0.044	0.298	0.000	-0.000	0.000	-0.000
515	GLOBAL	0.053	0.298	-0.015	-0.000	0.000	-0.000
508	GLOBAL	0.002	0.324	-0.044	-0.000	0.000	-0.000
514	GLOBAL	0.002	0.325	-0.044	0.000	-0.000	-0.000
403	GLOBAL	0.004	0.321	-0.044	-0.000	0.000	-0.000
603	GLOBAL	0.004	0.323	-0.044	0.000	-0.000	-0.000
502	GLOBAL	0.004	0.300	-0.042	0.000	-0.000	-0.000
505	GLOBAL	0.024	0.311	-0.029	0.000	-0.000	-0.000
513	GLOBAL	0.003	0.280	-0.038	-0.000	-0.000	-0.000
601	GLOBAL	-0.000	0.279	-0.046	0.000	-0.000	-0.000
501	GLOBAL	0.004	0.280	-0.039	-0.000	-0.000	-0.000
509	GLOBAL	0.052	0.298	-0.011	0.000	0.000	-0.000
406	GLOBAL	0.048	0.297	-0.010	0.000	0.000	-0.000
504	GLOBAL	0.024	0.288	-0.028	0.000	0.000	-0.000
711	GLOBAL	0.002	0.323	-0.042	-0.000	0.000	-0.000
603	GLOBAL	-0.001	0.324	-0.051	0.000	0.000	-0.000
210	GLOBAL	0.037	0.357	-0.017	0.000	-0.000	-0.000
503	GLOBAL	-0.001	0.365	-0.047	-0.000	-0.000	-0.000
306	GLOBAL	0.041	0.344	-0.015	-0.000	-0.000	-0.000
201	GLOBAL	-0.003	0.317	-0.044	0.000	-0.000	-0.000

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
512	GLOBAL	0,049	0,298	-0,009	0,000	0,000	-0,000
511	GLOBAL	0,004	0,522	-0,044	-0,000	-0,000	-0,000
613	GLOBAL	-0,002	0,323	-0,051	0,000	0,000	-0,000
662	GLOBAL	-0,000	0,319	-0,197	0,000	-0,000	-0,000
611	GLOBAL	-0,002	0,280	-0,046	0,000	-0,000	-0,000
106	GLOBAL	0,032	0,329	-0,017	0,000	-0,000	-0,000
205	GLOBAL	0,015	0,348	-0,043	0,000	-0,000	-0,000
204	GLOBAL	0,015	0,326	-0,041	0,000	-0,000	-0,000
203	GLOBAL	-0,005	0,359	-0,048	0,000	-0,000	-0,000
101	GLOBAL	-0,005	0,308	-0,045	0,000	-0,000	-0,000
202	GLOBAL	-0,004	0,337	-0,056	0,000	-0,000	-0,000
612	GLOBAL	-0,002	0,313	-0,197	0,000	-0,000	-0,000
105	GLOBAL	0,013	0,340	-0,044	0,000	-0,000	-0,000
104	GLOBAL	0,013	0,319	-0,041	0,000	-0,000	-0,000
103	GLOBAL	-0,005	0,351	-0,049	0,000	0,000	-0,000
102	GLOBAL	-0,005	0,330	-0,058	0,000	-0,000	-0,000

LOADING = 7 VIBRATION IN X-DIRECTION (COMBINED LOADS)

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
41	101	785,168	-0,230	-690,295	0,310	72989,813	-92,183
41	102	-785,168	0,230	690,295	-0,310	47121,602	52,198
42	102	532,952	-2,997	386,192	-0,448	-46642,070	-106,888
42	103	-532,952	2,997	-386,192	0,448	-20555,458	-414,557
43	103	-2,640	4,514	478,939	4,423	-35688,738	502,148
43	105	2,640	-4,514	-478,939	-4,423	-49610,059	283,022
44	105	124,983	-6,561	-599,134	-4,909	49864,859	-330,056
44	106	-124,983	6,561	599,134	4,909	54380,711	-776,904
45	101	634,466	-5,243	-610,152	4,818	57824,961	-301,626
45	104	-634,466	5,243	610,152	-4,818	48294,805	-262,350
46	104	510,578	6,480	460,650	-2,107	-48234,648	332,151
46	106	-510,578	-6,480	-460,650	2,107	-31951,098	795,479
47	102	-116,751	0,004	2,439	-0,508	-478,552	-23,426
47	104	116,751	-0,004	-2,439	0,508	54,178	24,188
48	102	121,850	0,129	1,089	-0,208	-479,054	31,264
48	105	-121,850	-0,129	-1,089	0,208	289,573	-8,884
49	104	-2,061	-0,481	1,871	0,578	-66,031	-45,612

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
49	105	2,061	0,481	-1,871	-0,578	-259,520	-38,150
50	201	3546,606	-5,456	-628,809	0,979	62043,125	-564,182
50	202	-3546,606	5,456	628,809	-0,979	47369,746	-385,205
51	202	3310,064	2,001	446,789	0,499	-46978,441	348,043
51	203	-3310,064	-2,001	-446,789	-0,499	-30762,859	0,111
52	203	-4049,565	0,917	502,767	2,677	-46185,289	190,788
52	205	4049,565	-0,917	-502,767	-2,677	-47257,734	-31,238
53	205	-3936,367	-3,692	-574,968	-2,513	47401,535	-85,776
53	206	3936,367	3,692	574,968	2,513	52658,574	-556,701
54	201	-834,877	-6,068	-571,209	2,621	51418,844	-657,812
54	204	834,877	6,068	571,209	-2,621	47927,926	-397,604
55	204	-958,972	4,185	500,820	-1,777	-47845,348	232,247
55	206	958,972	-4,185	-500,820	1,777	-39310,992	496,083
56	202	-117,595	-0,970	1,811	-0,335	-390,307	-65,975
56	204	117,595	0,970	-1,811	0,335	75,285	-102,715
57	202	109,925	-0,659	1,351	-0,256	-390,932	-28,813
57	205	-109,925	0,659	-1,351	0,256	155,892	-85,884
58	204	5,652	0,181	1,271	0,433	-89,729	62,641
58	205	-5,652	-0,181	-1,271	-0,433	-151,496	-51,130
59	201	-10015,820	-15,575	-59,036	614,061	8939,176	-3004,929
59	303	10015,820	15,575	59,036	-614,061	14190,828	-3097,370
60	203	5222,168	-23,747	-32,232	-2164,529	5176,871	-3409,755
60	306	-5222,168	23,747	32,232	2164,529	7450,176	-5895,277
61	206	5160,004	20,698	-33,688	2452,481	5440,383	3528,433
61	301	-5160,004	-20,698	33,688	-2452,481	7756,930	4580,094
62	301	4868,324	-29,485	-150,320	406,805	26707,625	-4784,641
62	303	-4868,324	29,485	150,320	-406,805	25603,648	-5475,965
63	303	-782,105	-7,292	-72,307	-29,233	11886,938	458,529
63	306	782,105	7,292	72,307	29,233	13272,454	-2995,530
64	301	-3984,521	-2,350	-72,242	91,313	12718,582	-1789,998
64	306	3984,521	2,350	72,242	-91,313	12418,023	972,455
65	501	15285,992	-150,349	-235,223	649,272	37705,848	-18455,781
65	502	-15285,992	150,349	235,223	-649,272	5057,609	-8877,605
66	502	15011,770	-0,027	-216,787	-287,322	-47,842	6203,598
66	503	-15011,770	0,027	216,787	287,322	39459,727	-6208,295
67	503	-7420,387	-14,031	-127,043	6267,160	21888,566	3914,093
67	505	7420,387	14,031	127,043	-6267,160	1207,547	-6464,957
68	505	-7397,520	17,282	-92,818	-4417,516	704,453	6106,996
68	506	7397,520	-17,282	92,818	4417,516	16169,543	-2965,267
69	501	6442,496	-224,099	-138,288	5252,031	19505,551	-27151,340
69	504	-6442,496	224,099	138,288	-5252,031	5654,793	-13589,223
70	504	6056,371	69,660	-52,970	-4715,555	-3528,829	4804,191
70	506	-6056,371	-69,660	52,970	4715,555	13158,605	7859,809
71	502	-159,200	-45,130	-20,273	-1755,688	-1440,750	-2936,548

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
71	504	159,200	43,130	20,273	1755,688	5126,371	-4904,441
72	502	15,379	-8,410	-15,535	-1744,706	-2515,901	-262,338
72	505	-15,379	8,410	15,535	1744,706	5340,082	-1266,514
73	501	688,508	2,475	26,596	-31349,902	-821,193	-46,063
73	507	-688,508	-2,475	-26,596	31349,902	11,301	121,435
74	507	-684,376	0,0	0,0	31350,141	0,0	0,0
74	510	684,376	0,0	0,0	-31350,141	0,0	0,0
75	503	7409,836	4,898	-52,632	-115718,125	1561,009	597,394
75	508	-7409,836	-4,898	52,632	115718,125	41,715	-448,238
76	508	-7405,957	0,0	0,0	115719,000	0,0	0,0
76	511	7405,957	0,0	0,0	-115719,000	0,0	0,0
77	506	986,936	-27,845	-0,000	87691,938	-341,697	-846,520
77	509	-986,936	27,845	0,000	-87691,938	341,697	-0,000
78	509	-985,006	0,0	0,0	-87692,625	0,0	0,0
78	512	985,006	0,0	0,0	87692,625	0,0	0,0
79	501	-509,542	-48,389	5154,746	-952,082	-121504,063	-2209,367
79	513	509,542	48,389	-5154,746	952,082	-63633,895	471,438
80	503	256,406	0,678	1846,858	228,425	-39220,141	299,777
80	514	-256,406	-0,678	-1846,858	-228,425	-27111,605	-275,416
81	506	-206,173	107,588	2262,999	1508,416	-55837,125	2088,677
81	515	206,173	-107,588	-2262,999	-1508,416	-25630,828	1784,475
82	513	-4213,445	213,493	-385,182	471,438	55542,699	31067,465
82	651	4213,445	-213,493	385,182	-471,438	27224,711	15047,125
83	514	2786,157	-128,918	-141,951	275,416	23346,527	-13785,172
83	653	-2786,157	128,918	141,951	-275,416	7315,020	-14061,188
84	515	-1321,471	-206,173	-25,588	1784,475	1508,416	-25630,828
84	656	1321,471	206,173	25,588	-1784,475	4018,490	-18902,492
85	601	-613,751	-410,016	1716,282	-17352,570	-76893,575	-22092,156
85	611	613,751	410,016	-1716,282	17352,570	-46678,926	-7428,977
86	603	-571,369	234,752	1171,256	13388,051	-49345,309	13482,070
86	613	571,369	-234,752	-1171,256	-13388,051	-34965,086	3418,611
87	651	635,983	-713,032	1942,266	-13392,680	-73348,188	-31488,922
87	661	-635,983	713,032	-1942,266	13392,680	-43187,770	-11292,996
88	653	549,137	351,316	2355,541	11157,984	-94326,688	16120,898
88	663	-549,137	-351,316	-2355,541	-11157,984	-45805,672	4958,063
89	611	1052,681	0,986	-765,873	-1021,529	71551,313	-1689,457
89	612	-1052,681	-0,986	765,873	1021,529	75788,063	1878,934
90	612	1054,873	-21,916	679,977	425,005	-68067,188	-1712,624
90	613	-1054,873	21,916	-679,977	-425,005	-62569,797	-2497,810
91	661	-102,255	-25,218	-580,999	-606,954	60501,105	-4311,539
91	662	102,255	25,218	580,999	606,954	65181,958	-651,134
92	662	-295,825	-0,316	515,143	1244,385	-56417,477	464,823
92	663	295,825	0,316	-515,143	-1244,385	-53246,176	-532,148
93	611	311,352	612,765	694,948	834,111	-53998,801	46009,172

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
93	661	-311,552	-612,765	-694,948	-834,111	-47108,418	43141,293
94	612	-212,469	22,902	100,593	-166,310	-7720,875	1446,534
94	662	212,469	-22,902	-100,593	166,310	-6764,457	1851,339
95	613	765,481	549,454	-627,353	924,463	49181,770	55050,656
95	663	-765,481	-549,454	627,353	-924,463	42088,184	44888,707
96	501	-21458,016	-102,652	-127,786	-2151,286	33255,781	-21317,277
96	703	21458,016	102,652	127,786	2151,286	31427,579	-30631,809
97	505	16487,809	-55,802	-154,235	-1713,414	36664,160	-6244,422
97	706	-16487,809	55,802	154,235	1713,414	31282,879	-20001,199
98	506	11680,762	40,593	0,723	3771,384	6114,551	6835,531
98	701	-11680,762	-40,593	-0,723	-3771,384	-6480,512	13608,492
99	701	5000,871	-38,002	-34,825	21,682	6467,871	-6376,207
99	702	-5000,871	38,002	34,825	-21,682	1371,419	-2178,815
100	504	244,715	26,343	-41,868	3246,004	3495,455	3880,584
100	505	-244,715	-26,343	41,868	-3246,004	4116,102	908,556
101	702	4688,539	-25,816	-18,230	-1596,352	-654,719	-9,152
101	703	-4688,539	25,816	18,230	1596,352	4758,746	-5352,242
102	703	-4736,730	27,229	-39,242	0,675	8648,633	5649,242
102	705	4736,730	-27,229	39,242	-0,675	182,921	478,716
103	705	-4562,371	7,703	-56,664	-1547,416	2100,615	1427,911
103	706	4562,371	-7,703	56,664	1547,416	10657,645	306,349
104	701	3808,315	-55,495	-26,360	713,376	3639,260	-8427,195
104	704	-3808,315	55,495	26,360	-713,376	2295,031	-3612,006
105	704	3596,000	0,190	6,898	-2416,231	-1475,535	-144,165
105	706	-3596,000	-0,190	-6,898	2416,231	-79,770	187,053
106	702	-154,235	-14,629	-9,493	-720,131	402,003	-1407,933
106	704	154,235	14,629	9,493	720,131	1754,478	-1884,258
107	702	142,643	6,354	-3,640	200,276	-934,917	780,053
107	705	-142,643	-6,354	3,640	-200,276	1754,020	645,443
108	704	22,980	13,917	-1,351	1132,563	808,959	1871,915
108	705	-22,980	-13,917	1,351	-1132,563	-504,732	1261,184
109	701	867,883	2,468	26,517	7072,852	-804,934	102,544
109	707	-867,883	-2,468	-26,517	-7072,852	-2,550	-27,397
110	707	-865,950	0,0	0,0	-7072,902	0,0	0,0
110	710	865,950	0,0	0,0	7072,902	0,0	0,0
111	703	970,250	2,577	-27,688	43949,191	858,992	-91,772
111	708	-970,250	-2,577	27,688	-43949,191	-15,843	170,238
112	708	-966,320	0,0	0,0	-43949,523	0,0	0,0
112	711	966,320	0,0	0,0	43949,523	0,0	0,0
113	706	6616,180	-49,772	0,000	171825,875	-669,530	-1513,114
113	709	-6616,180	49,772	-0,000	-171825,875	669,530	-0,000
114	709	-6612,293	0,0	0,0	-171827,125	0,0	0,0
114	712	6612,293	0,0	0,0	171827,125	0,0	0,0
115	701	-10272,027	20,237	-29,239	-7469,324	2729,857	9901,281

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
115	806	10272,027	-20,237	29,239	7469,324	14869,613	2279,836
116	703	18738,957	34,685	-48,792	-1553,301	9257,773	8739,191
116	801	-18738,957	-34,685	48,792	1553,301	20110,059	12157,723
117	701	-8749,906	11,113	-58,209	-1828,030	12878,051	9443,254
117	805	8749,906	-11,113	58,209	1828,030	22157,742	-2754,152
118	801	8978,281	28,827	340,424	-544,884	-38338,641	8147,180
118	802	-8978,281	-28,827	-340,424	544,884	-54760,563	-263,658
119	802	8500,012	41,561	-455,729	-4236,965	55524,996	4614,168
119	803	-8500,012	-41,561	455,729	4236,965	69107,688	6751,945
120	803	-6266,617	-51,217	-512,989	-1528,939	82716,563	-7857,273
120	805	6266,617	51,217	512,989	1528,939	57577,773	-6149,645
121	805	-6061,465	-16,827	280,449	-4962,895	-53629,504	2465,201
121	806	6061,465	16,827	-280,449	4962,895	-23085,879	-7068,055
122	801	3443,988	15,464	348,493	709,919	-44951,191	4777,758
122	804	-3443,988	-15,464	-348,493	-709,919	-50356,020	-548,511
123	804	3190,182	35,336	-399,372	-7257,898	52125,504	1393,191
123	806	-3190,182	-35,336	399,372	7257,898	57120,313	8272,707
124	802	-253,934	8,399	-22,836	-1321,180	1672,619	1694,552
124	804	253,934	-8,399	22,836	1321,180	4574,035	603,060
125	802	245,272	-18,862	-5,775	396,037	-1599,216	-2655,959
125	805	-245,272	18,862	5,775	-396,037	3178,911	-2503,743
126	804	33,264	-5,199	-8,482	2196,979	2549,557	-241,621
126	805	-33,264	5,199	8,482	-2196,979	-228,963	-1180,707
127	801	6204,887	4,464	47,965	133360,750	-1412,522	652,504
127	807	-6204,887	-4,464	-47,965	-133360,750	-48,074	-516,576
128	807	-6200,996	0,0	0,0	-133361,750	0,0	0,0
128	810	6200,996	0,0	0,0	133361,750	0,0	0,0
129	803	4756,723	5,942	-42,355	265472,250	1385,479	-908,281
129	808	-4756,723	-5,942	42,355	-265472,250	-95,698	1028,512
130	808	-4752,624	0,0	0,0	-265474,250	0,0	0,0
130	811	4752,624	0,0	0,0	265474,250	0,0	0,0
131	806	-20,708	-23,911	-0,000	18895,273	-73,627	-726,920
131	809	20,708	23,911	0,000	-18895,273	73,627	-0,000
132	809	24,645	0,0	0,0	-18895,414	0,0	0,0
132	812	-24,645	0,0	0,0	18895,414	0,0	0,0
133	801	-22088,086	27,981	-57,001	2353,201	16669,004	10335,258
133	903	22088,086	-27,981	57,001	-2353,201	24098,215	9676,852
134	803	15471,793	-62,659	-30,059	-5118,672	8798,797	-25144,977
134	906	-15471,793	62,659	30,059	5118,672	12699,532	-19669,086
135	806	9855,152	-19,376	-40,218	-192,341	13105,367	-9752,734
135	901	-9855,152	19,376	40,218	192,341	15659,621	-4105,637
136	901	10459,105	-7,024	395,355	651,663	-53566,922	1079,248
136	902	-10459,105	7,024	-395,355	-651,663	-76520,750	-5390,570
137	902	10137,707	33,428	-539,991	1482,117	79169,000	4865,387

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
137	903	-10157.707	-33.428	539.991	-1482.117	98509.563	6133.793
138	903	-1879.036	-37.179	-505.554	2736.557	85540.375	-7584.168
138	905	1879.036	37.179	505.554	-2736.557	80773.000	-4646.621
139	905	-1752.495	-2.740	450.814	-2785.755	-79867.188	1510.529
139	906	1752.495	2.740	-450.814	2785.755	-68485.188	-2412.146
140	901	-2187.660	-14.104	423.186	2827.207	-64028.570	-900.511
140	904	2187.660	14.104	-423.186	-2827.207	-75188.063	-3759.529
141	904	-2401.307	22.153	-496.740	-2825.997	76349.813	3333.393
141	906	2401.307	-22.153	496.740	2825.997	87115.813	3956.729
142	902	-196.777	-0.939	-4.493	-830.792	-1446.356	134.327
142	904	196.777	0.939	4.493	830.792	2924.278	-443.136
143	902	156.349	-9.945	-6.350	-1040.605	-608.534	-1340.492
143	905	-156.349	9.945	6.350	1040.605	2697.521	-1931.180
144	904	57.462	-3.774	-12.800	1722.867	2144.852	-57.003
144	905	-57.462	3.774	12.800	-1722.867	2066.698	-1204.917
145	901	-9083.535	-1.047	-11.255	342877.938	466.337	1296.251
145	907	9083.535	1.047	11.255	-342877.938	-123.601	-1328.147
146	907	9087.543	0.0	0.0	-342880.500	0.0	0.0
146	910	-9087.543	0.0	0.0	342880.500	0.0	0.0
147	903	16490.445	8.172	-87.806	220843.625	2753.429	-606.611
147	908	-16490.445	-8.172	87.806	-220843.625	-79.610	855.444
148	908	-16486.633	0.0	0.0	-220845.375	0.0	0.0
148	911	16486.633	0.0	0.0	220845.375	0.0	0.0
149	906	5852.121	-46.795	-0.000	-574331.938	2237.919	-1422.604
149	909	-5852.121	46.795	0.000	574331.938	-2237.919	-0.000
150	909	-5848.227	0.0	0.0	574336.313	0.0	0.0
150	912	5848.227	0.0	0.0	-574336.313	0.0	0.0
151	901	-23865.758	-2.657	-4.754	730.290	5671.473	-189.226
151	1002	23865.758	2.657	4.754	-730.290	-3262.677	-1147.151
152	903	25736.430	10.793	24.825	529.915	-2655.151	3012.537
152	1002	-25736.430	-10.793	-24.825	-529.915	-9923.688	2456.415
153	903	13072.020	8.112	15.315	235.762	-3198.573	1533.574
153	1005	-13072.020	-8.112	-15.315	-235.762	-4561.621	2576.760
154	906	-11105.906	10.765	-6.860	65.348	3552.099	1200.659
154	1005	11105.906	-10.765	6.860	-65.348	-76.398	4253.617
155	901	-11010.402	-6.538	1.148	1099.196	1218.778	-367.915
155	1004	11010.402	6.538	-1.148	-1099.196	-1800.525	-2944.820
156	906	12418.699	-3.584	-5.645	-440.871	3428.703	-10.660
156	1004	-12418.699	3.584	5.645	440.871	-568.267	-1805.205
157	1001	17257.273	32.745	-92.151	2660.803	27726.820	8745.676
157	1002	-17257.273	-32.745	92.151	-2660.803	7703.410	3844.106
158	1002	-15143.469	18.813	-93.764	1859.552	5657.754	2048.589
158	1003	15143.469	-18.813	93.764	-1859.552	30392.445	5184.758
159	1003	-12907.336	17.491	-23.269	4722.719	8128.320	2702.177

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
159	1005	12907,336	-17,491	23,269	-4722,719	818,769	4023,418
160	1005	2904,673	1,850	-74,819	-5336,348	6422,109	-661,225
160	1006	-2904,673	-1,850	74,819	5336,348	22346,230	1592,482
161	1001	13946,918	-6,637	17,956	3972,253	-1017,647	57,863
161	1004	-13946,918	6,637	-17,956	-3972,253	-5886,438	-2609,795
162	1004	-1479,616	4,439	-98,148	-6635,223	11853,684	2099,712
162	1006	1479,616	-4,439	98,148	6635,223	25884,789	-392,854
163	1002	-124,691	2,677	-20,231	-684,125	2189,419	909,902
163	1004	124,691	-2,677	20,231	684,125	5589,567	119,341
164	1002	14,091	-3,790	-9,648	-971,448	116,592	-1049,862
164	1005	-14,091	3,790	9,648	971,448	5595,135	-407,553
165	1004	-75,117	2,583	-31,020	1554,517	5633,145	570,729
165	1005	75,117	-2,583	31,020	-1554,517	6293,570	422,466
166	1001	26472,883	11,761	126,573	403716,438	-3702,854	1920,424
166	1007	-26472,883	-11,761	-126,573	-403716,438	-145,400	-1562,271
167	1007	-26469,141	0,0	0,0	-403719,500	0,0	0,0
167	1010	26469,141	0,0	0,0	403719,500	0,0	0,0
168	1003	-25135,027	-6,825	73,336	308550,500	-2122,047	-1401,845
168	1008	25135,027	6,825	-73,336	-308550,500	-111,125	1194,005
169	1008	25139,152	0,0	0,0	-308552,875	0,0	0,0
169	1011	-25139,152	0,0	0,0	308552,875	0,0	0,0
170	1006	754,677	-26,930	0,000	-620718,750	2416,299	-818,683
170	1009	-754,677	26,930	-0,000	620718,750	-2416,299	-0,000
171	1009	-750,745	0,0	0,0	620723,438	0,0	0,0
171	1012	750,745	0,0	0,0	-620723,438	0,0	0,0
172	101	7376,475	-547,531	1628,349	393,809	-101919,125	-50067,816
172	201	-7376,475	547,531	-1628,349	-393,809	-191183,563	-48487,887
173	103	6941,152	-2,969	-4,703	916,706	37403,352	-29172,785
173	203	-6941,152	2,969	4,703	-916,706	-36556,836	28638,398
174	106	7136,078	550,500	343,353	-1572,384	-11229,117	74750,625
174	206	-7136,078	-550,500	-343,353	1572,384	-50574,508	24339,387
175	201	26316,641	199,454	-3048,525	4002,722	94478,188	5892,637
175	501	-26316,641	-199,454	3048,525	-4002,722	454256,063	30009,012
176	203	18541,813	-496,427	-2538,293	2594,973	85775,375	-57256,066
176	503	-18541,813	496,427	2538,293	-2594,973	371117,250	-32100,801
177	206	18892,480	266,677	-2357,992	-4308,305	42307,684	48777,859
177	506	-18892,480	-266,677	2357,992	4308,305	382130,938	-776,070
178	301	38670,074	-274,993	3112,995	10597,766	-494246,500	-46921,121
178	401	-38670,074	274,993	-3112,995	-10597,766	-570397,750	-47126,520
179	303	23437,656	139,451	2444,540	12312,910	-416850,438	42670,684
179	403	-23437,656	-139,451	-2444,540	-12312,910	-419350,250	5028,961
180	306	31052,523	135,542	2561,717	-9246,699	-401350,125	8714,246
180	406	-31052,523	-135,542	-2561,717	9246,699	-474756,938	37641,082
181	401	-123581,063	4585,438	-436,557	-31400,977	208454,938	155036,063

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
181	501	123581,063	-4585,438	436,557	31400,977	-184553,250	96019,563
182	403	54209,227	-252,621	13726,063	-19601,617	-235036,313	-182274,125
182	503	-54209,227	252,621	-13726,063	19601,617	-532548,125	168147,063
183	406	-31335,570	-5613,563	8199,207	69746,875	-135976,000	-86524,813
183	506	31335,570	5613,563	-8199,207	-69746,875	-312486,813	-220788,938
184	501	-102520,313	285,699	-1147,745	35824,582	194743,625	-17282,820
184	601	102520,313	-285,699	1147,745	-35824,582	-110977,813	38133,953
185	503	48192,617	-2358,184	-2963,108	-8339,148	428827,563	-247579,813
185	603	-48192,617	2358,184	2963,108	8339,148	-212571,375	75472,688
186	506	-30265,961	221,222	-2048,178	55557,566	201136,938	157252,875
186	656	30265,961	-221,222	2048,178	-55557,566	247371,813	-106809,813
187	601	-96563,500	162,172	-651,846	26363,777	92785,500	41088,371
187	651	96563,500	-162,172	651,846	-26363,777	2572,758	-17413,969
1 8	603	53346,617	-2506,849	-1570,043	-3094,535	226437,375	-24701,070
188	653	-53346,617	2506,849	1570,043	3094,535	2761,898	-341255,688
189	651	-93670,063	1298,672	265,221	7495,795	-44666,137	79538,563
189	701	93670,063	-1298,672	-265,221	-7495,795	22267,086	31071,734
190	653	63346,441	-1291,158	547,760	-3331,484	1076,156	450869,813
190	703	-63346,441	1291,158	-547,760	3331,484	-30695,508	-560840,250
191	656	-25532,125	-764,724	-979,766	56541,141	-251655,063	127712,250
191	706	25532,125	764,724	979,766	-56541,141	335097,000	-192840,188
192	701	-71581,438	-469,687	-399,337	26507,766	-32441,191	-67452,438
192	801	71581,438	469,687	399,337	-26507,766	168460,250	-92528,438
193	703	43757,961	5471,812	-463,915	38821,223	5283,012	631376,313
193	803	-43757,961	-5471,812	463,915	-38821,223	152731,938	551163,563
194	706	-9509,984	1106,906	2270,998	59757,449	-539408,688	229239,063
194	806	9509,984	-1106,906	-2270,998	-59757,449	-234142,188	147797,000
195	801	-43035,031	46,012	-103,566	14174,133	-78620,563	6065,574
195	901	43035,031	-46,012	103,566	-14174,133	118862,813	11847,590
196	803	35404,449	-526,655	354,169	15057,121	-158260,313	-216871,313
196	903	-35404,449	526,655	-354,169	-15057,121	20375,348	11834,281
197	806	-16261,590	-868,490	-954,178	26665,637	167525,875	-220608,500
197	906	16261,590	868,490	954,178	-26665,637	203945,125	-117503,000
198	901	-7360,691	-1532,879	-735,217	4996,270	114620,688	-254378,375
198	1001	7360,691	1532,879	735,217	-4996,270	171600,875	-342374,438
199	903	1373,371	1304,307	-96,422	-610,458	-78194,125	238171,375
199	1003	-1373,371	-1304,307	96,422	610,458	115751,250	269597,750
200	906	-2970,871	-8,044	-2382,235	4593,445	341009,500	102,354
200	1006	2970,871	8,044	2382,235	-4593,445	586417,688	-3233,849
201	401	169094,188	-1088,021	-2103,110	1160,218	361398,375	-109898,875
201	510	-169094,188	1088,021	2103,110	-1160,218	-246002,563	50200,242
202	403	-25855,109	2716,681	-2608,490	-1224,436	654055,125	180654,000
202	511	25855,109	-2716,681	2608,490	1224,436	-507881,313	-28417,617
203	406	68774,250	-464,024	-4790,492	-1036,273	605795,250	48863,820

MEMBER FORCES

MEMBER	JOINT	FORCE			MOMENT		
		AXIAL	SHEAR Y	SHEAR Z	TORSIONAL	BENDING Y	BENDING Z
203	512	-68774,250	464,024	4790,492	1036,273	-342972,375	-74341,688
204	510	179003,375	-786,260	-1416,595	1435,251	261487,625	-77463,313
204	710	-179003,375	786,260	1416,595	-1435,251	169351,875	-161667,875
205	511	-16497,043	-188,661	-3373,695	1318,729	565276,875	124615,188
205	711	16497,043	188,661	3373,695	-1318,729	460790,125	-181993,938
206	512	78462,563	-1128,890	-3233,499	-970,399	430665,125	74341,875
206	712	-78462,563	1128,890	3233,499	970,399	552785,813	-417687,563
207	710	197975,938	451,965	-1132,753	1354,080	-172852,438	167811,375
207	810	-197975,938	-451,965	1132,753	-1354,080	558681,563	-13866,852
208	711	1806,352	841,448	801,879	1349,403	-482496,688	143799,750
208	811	-1806,352	-841,448	-801,879	-1349,403	209367,125	142807,188
209	712	97093,375	2409,349	-880,499	-1032,703	-380959,125	417687,563
209	812	-97093,375	-2409,349	880,499	1032,703	680876,125	402988,563
210	810	220618,938	-699,491	2870,955	1393,278	-624560,938	129852,875
210	910	-220618,938	699,491	-2870,955	-1393,278	-493156,625	-402178,375
211	811	23874,528	316,353	1922,078	1322,729	-340502,563	-373638,563
211	911	-23874,528	-316,353	-1922,078	-1322,729	-407798,875	496800,625
212	812	119453,938	-1388,618	1145,500	-1348,398	-661980,063	-402968,438
212	912	-119453,938	1388,618	-1145,500	1348,398	216025,438	-137614,125
213	910	243229,875	5657,289	-6979,438	949,944	323755,813	700308,063
213	1010	-243229,875	-5657,289	6979,438	-949,944	2393351,000	1502087,000
214	911	46108,375	-5990,895	-7938,516	964,264	298683,438	-688824,563
214	1011	-46108,375	5990,895	7938,516	-964,264	2791795,000	-1643441,000
215	912	141873,125	717,172	2390,500	-724,526	-790361,000	137614,000
215	1012	-141873,125	-717,172	-2390,500	724,526	-140283,688	141587,875
216	1010	256783,063	-6311,199	14217,203	0,000	-2592854,000	-1150995,000
216	1110	-256783,063	6311,199	-14217,203	-0,000	0,000	0,000
217	1011	59629,473	7559,930	16144,230	0,000	-2944270,000	1375078,000
217	1111	-59629,473	-7559,930	-16144,230	-0,000	0,000	0,000
218	1012	155410,513	-776,400	2634,500	0,000	-480439,250	-141587,813
218	1112	-155410,513	776,400	-2634,500	-0,000	0,000	-0,000

RESULTANT JOINT LOADS = SUPPORTS

JOINT		FORCE			MOMENT		
		X FORCE	Y FORCE	Z FORCE	X MOMENT	Y MOMENT	Z MOMENT
1110	GLOBAL	-50660,828	27409,984	255795,688	0,000	0,000	0,000
1111	GLOBAL	-7374,664	-2609,918	64814,578	0,000	0,000	-0,000
1112	GLOBAL	-2634,500	-24800,066	156494,000	-0,000	0,000	0,000
		-60,669.992	0.000	475,104.266			

RESULTANT JOINT DISPLACEMENTS = SUPPORTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1110	GLOBAL	0.0	0.0	0.0	0.000	0.001	-0.000
1111	GLOBAL	0.0	0.0	0.0	-0.000	0.001	-0.000
1112	GLOBAL	0.0	0.0	0.0	0.000	0.000	-0.000

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
1010	GLOBAL	0.121	-0.028	0.008	0.000	0.000	-0.000
1007	GLOBAL	0.167	0.026	-0.068	-0.000	0.000	0.000
910	GLOBAL	0.196	0.001	0.002	-0.000	0.000	-0.000
1001	GLOBAL	0.166	0.025	-0.064	-0.000	0.000	0.000
907	GLOBAL	0.217	0.018	-0.058	-0.000	0.000	0.000
810	GLOBAL	0.245	0.017	-0.004	-0.000	0.000	-0.000
1002	GLOBAL	0.174	0.004	-0.040	0.000	0.000	0.000
1004	GLOBAL	0.158	0.013	-0.047	-0.000	0.000	0.000
901	GLOBAL	0.216	0.017	-0.055	-0.000	0.000	0.000
807	GLOBAL	0.254	0.019	-0.043	-0.000	0.000	0.000
710	GLOBAL	0.261	0.018	-0.011	0.000	0.000	0.000
1003	GLOBAL	0.167	-0.018	-0.010	0.000	0.000	0.000
1005	GLOBAL	0.158	-0.006	-0.022	0.000	0.000	0.000
903	GLOBAL	0.224	-0.016	-0.018	0.000	0.000	0.000
1006	GLOBAL	0.140	0.003	-0.037	-0.000	0.000	0.000
906	GLOBAL	0.191	0.005	-0.037	-0.000	0.000	0.000
902	GLOBAL	0.220	0.004	0.009	0.000	0.000	0.000
904	GLOBAL	0.206	0.012	-0.002	-0.000	0.000	0.000
806	GLOBAL	0.237	0.006	-0.033	-0.000	0.000	0.000
801	GLOBAL	0.254	0.018	-0.041	-0.000	0.000	0.000
707	GLOBAL	0.262	0.015	-0.029	0.000	0.000	0.000
510	GLOBAL	0.263	0.013	-0.018	0.000	0.000	0.000
1008	GLOBAL	0.168	-0.019	-0.005	0.000	0.000	0.000
908	GLOBAL	0.226	-0.017	-0.016	0.000	0.000	0.000
905	GLOBAL	0.206	-0.004	0.020	0.000	0.000	0.000
803	GLOBAL	0.259	-0.012	-0.030	-0.000	0.000	0.000
1009	GLOBAL	0.139	0.003	-0.038	-0.000	0.000	0.000
909	GLOBAL	0.191	0.005	-0.037	-0.000	0.000	0.000
809	GLOBAL	0.237	0.006	-0.035	-0.000	0.000	0.000
805	GLOBAL	0.245	-0.002	-0.009	0.000	0.000	0.000
804	GLOBAL	0.245	0.012	-0.017	-0.000	0.000	0.000
706	GLOBAL	0.279	0.021	-0.029	-0.000	0.000	-0.000

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
701	GLOBAL	0.262	0.015	-0.028	0.000	0.000	0.000
802	GLOBAL	0.257	0.005	-0.014	-0.000	-0.000	0.000
703	GLOBAL	0.266	0.025	-0.041	-0.000	0.000	0.000
507	GLOBAL	0.263	0.012	-0.022	0.000	0.000	0.000
401	GLOBAL	0.264	0.012	-0.019	0.000	0.000	0.000
1011	GLOBAL	0.152	0.035	-0.025	-0.000	0.000	-0.000
911	GLOBAL	0.207	0.010	-0.036	0.000	0.000	0.000
808	GLOBAL	0.261	-0.013	-0.028	-0.000	0.000	0.000
1012	GLOBAL	0.070	-0.002	-0.007	0.000	0.000	-0.000
912	GLOBAL	0.191	0.001	-0.015	0.000	0.000	-0.000
512	GLOBAL	0.266	0.004	-0.021	-0.000	0.000	-0.000
709	GLOBAL	0.280	0.021	-0.030	-0.000	0.000	-0.000
656	GLOBAL	0.281	0.022	-0.029	-0.000	0.000	-0.000
705	GLOBAL	0.270	0.024	-0.036	0.000	-0.000	-0.000
704	GLOBAL	0.270	0.018	-0.030	0.000	-0.000	-0.000
503	GLOBAL	0.271	0.022	-0.046	0.000	0.000	0.000
702	GLOBAL	0.264	0.021	-0.036	0.000	-0.000	-0.000
651	GLOBAL	0.262	0.014	-0.026	0.000	0.000	0.000
506	GLOBAL	0.262	0.020	-0.028	0.000	0.000	-0.000
708	GLOBAL	0.266	0.024	-0.041	-0.000	0.000	0.000
653	GLOBAL	0.266	0.026	-0.043	0.000	0.000	0.000
501	GLOBAL	0.263	0.012	-0.021	0.000	0.000	0.000
301	GLOBAL	0.319	0.004	-0.024	0.000	0.000	-0.000
811	GLOBAL	0.249	0.003	-0.043	-0.000	0.000	0.000
712	GLOBAL	0.288	0.020	-0.023	-0.000	0.000	-0.000
515	GLOBAL	0.285	0.020	-0.028	-0.000	0.000	-0.000
508	GLOBAL	0.271	0.021	-0.045	0.000	0.000	0.000
514	GLOBAL	0.271	0.021	-0.044	0.000	0.000	0.000
403	GLOBAL	0.274	0.021	-0.047	0.000	0.000	0.000
603	GLOBAL	0.268	0.023	-0.045	0.000	0.000	0.000
502	GLOBAL	0.267	0.019	-0.035	0.000	-0.000	-0.000
505	GLOBAL	0.273	0.023	-0.037	0.000	-0.000	-0.000
513	GLOBAL	0.263	0.015	-0.025	0.000	0.000	0.000
661	GLOBAL	0.266	0.015	-0.035	0.000	-0.000	0.000
601	GLOBAL	0.263	0.013	-0.023	0.000	0.000	0.000
509	GLOBAL	0.284	0.019	-0.027	0.000	0.000	-0.000
406	GLOBAL	0.283	0.018	-0.027	0.000	0.000	-0.000
504	GLOBAL	0.273	0.016	-0.026	-0.000	-0.000	-0.000
711	GLOBAL	0.270	0.016	-0.047	-0.000	0.000	0.000
663	GLOBAL	0.266	0.026	-0.052	0.000	0.000	-0.000
206	GLOBAL	0.328	0.010	-0.032	0.000	-0.000	-0.000
303	GLOBAL	0.322	0.017	-0.049	0.000	0.000	-0.000
306	GLOBAL	0.329	0.015	-0.031	0.000	0.000	-0.000
201	GLOBAL	0.317	0.003	-0.026	0.000	-0.000	-0.000

RESULTANT JOINT DISPLACEMENTS = FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP	Y DISP	Z DISP	X ROT	Y ROT	Z ROT
512	GLOBAL	0.283	0.019	-0.027	0.000	0.000	-0.000
511	GLOBAL	0.271	0.021	-0.047	0.000	0.000	0.000
613	GLOBAL	0.267	0.023	-0.052	0.000	0.000	-0.000
602	GLOBAL	0.266	0.018	-0.192	0.000	-0.000	-0.000
611	GLOBAL	0.266	0.013	-0.033	0.000	-0.000	0.000
106	GLOBAL	0.323	0.005	-0.053	0.000	-0.000	-0.000
205	GLOBAL	0.323	0.012	-0.052	0.000	-0.000	-0.000
204	GLOBAL	0.323	0.007	-0.040	0.000	-0.000	-0.000
203	GLOBAL	0.320	0.012	-0.051	0.000	-0.000	-0.000
101	GLOBAL	0.316	0.001	-0.026	0.000	-0.000	-0.000
202	GLOBAL	0.318	0.009	-0.048	0.000	-0.000	-0.000
612	GLOBAL	0.267	0.012	-0.192	0.000	-0.000	-0.000
105	GLOBAL	0.319	0.007	-0.054	0.000	-0.000	-0.000
104	GLOBAL	0.319	0.005	-0.040	0.000	-0.000	-0.000
103	GLOBAL	0.316	0.009	-0.051	0.000	-0.000	-0.000
102	GLOBAL	0.316	0.005	-0.049	0.000	-0.000	-0.000

LIST SECTION STRESS ALL MEMBERS SECTION FRA NS 5 0. .25 .5 .75 1.0

****
RESULTS OF LATEST ANALYSES
****

PROBLEM = ACMR TITLE = EARTHQUAKE ANALYSIS OF TRIPOD STRUCTURES AT 105 FT WATER = NAVY

ACTIVE UNITS INCH LB RAD FAHR SEC LBM

INTERNAL MEMBER RESULTS
****

MEMBER NORMAL STRESS

MEMBER 41

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	15,144	0.0	0.0	-8,671	85,706	107,520	-77,232
0.250		15,144	0.0	0.0	-4,770	55,141	75,054	-44,766
0.500		15,144	0.0	0.0	-0.869	26,576	42,588	-12,300
0.750		15,144	0.0	0.0	3,032	-1,989	20,166	10,122
1.000		15,144	0.0	0.0	6,933	-30,554	52,632	-22,344

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE STRESS

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-20.782	0.0	0.0	-228.059	35.171	242.448	-284.011
0.250		-20.782	0.0	0.0	-173.892	25.219	178.329	-219.893
0.500		-20.782	0.0	0.0	-119.725	15.267	114.210	-155.774
0.750		-20.782	0.0	0.0	-65.558	5.315	50.091	-91.655
1.000		-20.782	0.0	0.0	-11.391	-4.637	-4.754	-36.810

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-29.350	0.0	0.0	-512.088	-16.657	499.394	-558.095
0.250		-29.350	0.0	0.0	-248.409	-10.848	229.906	-288.607
0.500		-29.350	0.0	0.0	15.270	-5.040	-9.040	-49.660
0.750		-29.350	0.0	0.0	278.949	0.769	250.368	-309.068
1.000		-29.350	0.0	0.0	542.628	6.578	519.855	-578.556

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	5.320	0.0	0.0	-8.507	-5.061	18.887	-8.248
0.250		5.320	0.0	0.0	-5.830	-3.660	14.810	-4.170
0.500		5.320	0.0	0.0	-3.154	-2.259	10.732	-0.093
0.750		5.320	0.0	0.0	-0.478	-0.858	6.655	3.985
1.000		5.320	0.0	0.0	2.199	0.543	8.062	2.578

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-3.281	0.0	0.0	-79.044	-4.899	85.662	-92.223
0.250		-3.281	0.0	0.0	-59.877	-6.690	63.286	-69.847
0.500		-3.281	0.0	0.0	-40.710	-3.481	40.910	-47.471
0.750		-3.281	0.0	0.0	-21.542	-0.272	18.533	-25.095
1.000		-3.281	0.0	0.0	-2.375	2.938	2.032	-8.594

MEMBER 42

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	14,797	0.0	0.0	8,023	-11,998	34,818	-5,224
0.250		14,797	0.0	0.0	10,402	-9,608	34,807	-5,213
0.500		14,797	0.0	0.0	12,782	-7,217	34,796	-5,202
0.750		14,797	0.0	0.0	15,162	-4,826	34,785	-5,191
1.000		14,797	0.0	0.0	17,541	-2,436	34,774	-5,180

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-5,638	0.0	0.0	-14,996	9,819	21,176	-28,453
0.250		-5,638	0.0	0.0	38,685	-4,956	40,002	-47,279
0.500		-5,638	0.0	0.0	92,365	-19,730	108,457	-115,734
0.750		-5,638	0.0	0.0	146,045	-34,505	176,912	-184,189
1.000		-5,638	0.0	0.0	199,726	-49,280	245,367	-252,644

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-29,304	0.0	0.0	542,388	1,658	514,742	-573,350
0.250		-29,304	0.0	0.0	281,118	2,353	254,167	-312,775
0.500		-29,304	0.0	0.0	19,849	3,048	-6,407	-52,201
0.750		-29,304	0.0	0.0	-241,421	3,742	215,859	-274,467
1.000		-29,304	0.0	0.0	-502,690	4,437	477,823	-536,431

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0	FR	5,339	0.0	0.0	2,189	-4,255	11,782	-1,105
0.250		5,339	0.0	0.0	4,347	0,366	10,052	0,625
0.500		5,339	0.0	0.0	6,506	4,987	16,831	-6,154
0.750		5,339	0.0	0.0	8,664	9,608	23,610	-12,933
1.000		5,339	0.0	0.0	10,822	14,228	30,389	-19,712

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-3,312	0.0	0.0	-3,912	-1,488	2,088	-8,711
0.250		-3,312	0.0	0.0	15,132	0,409	12,229	-18,852
0.500		-3,312	0.0	0.0	34,176	2,306	33,170	-39,793
0.750		-3,312	0.0	0.0	53,220	4,202	54,111	-60,734
1.000		-3,312	0.0	0.0	72,264	6,099	75,051	-81,674

MEMBER 43

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	11,195	0.0	0.0	-198,401	-11,391	220,987	-198,597
0.250		11,195	0.0	0.0	-150,336	-7,920	169,451	-147,061
0.500		11,195	0.0	0.0	-102,271	-4,449	117,916	-95,526
0.750		11,195	0.0	0.0	-54,207	-0,979	66,380	-43,990
1.000		11,195	0.0	0.0	-6,142	2,492	19,829	2,561

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	23,729	0.0	0.0	-104,522	-61,622	189,872	-142,415
0.250		23,729	0.0	0.0	-81,384	-38,621	143,733	-96,276
0.500		23,729	0.0	0.0	-58,246	-15,620	97,594	-50,137

0.750	23,729	0.0	0.0	-35,108	7,381	66,218	-18,761
1.000	25,729	0.0	0.0	-11,970	30,383	66,081	-18,624

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-29,496	0.0	0.0	511,193	9,307	491,004	-549,995
0.250		-29,496	0.0	0.0	247,960	6,056	224,521	-283,512
0.500		-29,496	0.0	0.0	-15,272	2,805	-11,418	-47,573
0.750		-29,496	0.0	0.0	-278,505	-0,446	249,455	-308,447
1.000		-29,496	0.0	0.0	-541,738	-3,697	515,939	-574,930

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0,585	0.0	0.0	-59,058	13,532	72,004	-73,175
0.250		-0,585	0.0	0.0	-44,707	9,351	53,472	-54,643
0.500		-0,585	0.0	0.0	-30,355	5,170	34,940	-36,110
0.750		-0,585	0.0	0.0	-16,004	0,989	16,407	-17,578
1.000		-0,585	0.0	0.0	-1,653	-3,192	4,260	-5,431

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	5,947	0.0	0.0	-28,571	5,385	39,902	-28,009
0.250		5,947	0.0	0.0	-22,199	3,980	32,125	-20,232
0.500		5,947	0.0	0.0	-15,827	2,575	24,349	-12,455
0.750		5,947	0.0	0.0	-9,455	1,170	16,572	-4,678
1.000		5,947	0.0	0.0	-3,083	-0,235	9,264	2,629

MEMBER 44

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-3,796	0.0	0.0	-8,598	-9,524	14,326	-21,917
0.250		-3,796	0.0	0.0	38,296	-2,144	36,645	-44,236
0.500		-3,796	0.0	0.0	85,191	5,235	86,650	-94,221
0.750		-3,796	0.0	0.0	132,085	12,614	140,903	-148,495
1.000		-3,796	0.0	0.0	178,979	19,993	195,177	-202,768

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	15,004	0.0	0.0	-14,678	25,366	55,047	-25,040
0.250		15,004	0.0	0.0	9,536	8,868	31,408	-1,400
0.500		15,004	0.0	0.0	33,750	-11,629	60,383	-30,375
0.750		15,004	0.0	0.0	57,964	-30,127	103,094	-73,087
1.000		15,004	0.0	0.0	82,178	-48,624	145,806	-115,798

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-29,504	0.0	0.0	-541,540	0,551	512,587	-571,594
0.250		-29,504	0.0	0.0	-279,972	-1,403	251,871	-310,878
0.500		-29,504	0.0	0.0	-18,405	-5,356	-7,743	-51,264
0.750		-29,504	0.0	0.0	243,163	-5,310	218,969	-277,976
1.000		-29,504	0.0	0.0	504,730	-7,263	482,489	-541,496

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0,494	0.0	0.0	-2,280	2,105	3,891	-4,879
0.250		-0,494	0.0	0.0	11,715	-1,243	12,463	-13,451
0.500		-0,494	0.0	0.0	25,709	-4,590	29,805	-30,794
0.750		-0,494	0.0	0.0	39,704	-7,937	47,147	-48,136
1.000		-0,494	0.0	0.0	53,699	-11,285	64,489	-65,478

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	5,997	0.0	0.0	-3,057	4,930	14,585	-2,590
0.250		5,997	0.0	0.0	3,113	-0,485	9,594	2,401
0.500		5,997	0.0	0.0	9,884	-5,895	21,777	-9,782
0.750		5,997	0.0	0.0	16,655	-11,308	35,960	-21,965
1.000		5,997	0.0	0.0	23,426	-16,720	46,143	-34,149

MEMBER 45

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-11,398	0.0	0.0	165,542	81,040	235,184	-257,981
0.250		-11,398	0.0	0.0	119,915	54,018	162,535	-185,331
0.500		-11,398	0.0	0.0	74,288	26,995	89,885	-112,682
0.750		-11,398	0.0	0.0	28,662	-0,028	17,291	-40,088
1.000		-11,398	0.0	0.0	-16,965	-27,050	32,617	-55,414

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-11,296	0.0	0.0	-115,491	49,013	153,208	-175,801
0.250		-11,296	0.0	0.0	-86,636	29,925	105,265	-127,857
0.500		-11,296	0.0	0.0	-57,781	10,837	57,321	-79,914
0.750		-11,296	0.0	0.0	-28,926	-8,252	25,881	-48,474
1.000		-11,296	0.0	0.0	-0,070	-27,340	16,114	-38,707

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-28.538	0.0	0.0	-502.851	-12.109	486.421	-543.497
0.250		-28.538	0.0	0.0	-241.654	-8.634	221.751	-278.826
0.500		-28.538	0.0	0.0	19.543	-5.160	-3.835	-55.241
0.750		-28.538	0.0	0.0	280.740	-1.686	253.888	-310.965
1.000		-28.538	0.0	0.0	541.937	1.788	515.187	-572.262

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-5.496	0.0	0.0	61.018	-5.235	60.757	-71.750
0.250		-5.496	0.0	0.0	44.635	-5.700	42.839	-53.832
0.500		-5.496	0.0	0.0	28.253	-2.165	24.921	-35.914
0.750		-5.496	0.0	0.0	11.870	-0.630	7.004	-17.996
1.000		-5.496	0.0	0.0	-4.513	0.905	-0.078	-10.914

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-3.327	0.0	0.0	-30.647	-8.715	36.036	-42.689
0.250		-3.327	0.0	0.0	-22.945	-6.278	25.896	-32.550
0.500		-3.327	0.0	0.0	-15.242	-3.841	15.756	-22.410
0.750		-3.327	0.0	0.0	-7.540	-1.404	5.617	-12.271
1.000		-3.327	0.0	0.0	0.163	1.033	-2.131	-4.525

MEMBER 46

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0	FR	-26,379	0.0	0.0	-13,201	-8,473	-4,706	-48,053
0.250		-26,379	0.0	0.0	-58,533	-8,442	40,595	-93,354
0.500		-26,379	0.0	0.0	-103,864	-8,412	85,897	-138,655
0.750		-26,379	0.0	0.0	-149,196	-8,381	131,198	-183,956
1.000		-26,379	0.0	0.0	-194,528	-8,350	176,499	-229,257

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-2,714	0.0	0.0	-0,841	-23,206	21,333	-26,760
0.250		-2,714	0.0	0.0	29,581	-5,629	52,496	-57,924
0.500		-2,714	0.0	0.0	60,002	11,947	69,235	-74,663
0.750		-2,714	0.0	0.0	90,423	29,523	117,232	-122,660
1.000		-2,714	0.0	0.0	120,845	47,099	165,230	-170,658

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-28,604	0.0	0.0	542,116	-3,454	516,966	-574,173
0.250		-28,604	0.0	0.0	278,538	0,132	250,066	-307,273
0.500		-28,604	0.0	0.0	14,959	3,718	-9,926	-47,281
0.750		-28,604	0.0	0.0	-248,619	7,304	227,320	-284,527
1.000		-28,604	0.0	0.0	-512,198	10,890	494,484	-551,691

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-5,492	0.0	0.0	-3,024	-3,633	1,164	-12,149
0.250		-5,492	0.0	0.0	-19,263	0,541	14,112	-25,097
0.500		-5,492	0.0	0.0	-35,503	4,315	34,326	-45,311
0.750		-5,492	0.0	0.0	-51,743	8,289	54,559	-65,524
1.000		-5,492	0.0	0.0	-67,983	12,263	74,753	-85,738

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	-3,416	0,0	0,0	0,079	-4,383	1,046	-7,877
0,250		-3,416	0,0	0,0	8,304	0,802	5,690	-12,521
0,500		-3,416	0,0	0,0	16,529	5,986	19,099	-25,931
0,750		-3,416	0,0	0,0	24,754	11,170	32,509	-39,340
1,000		-3,416	0,0	0,0	32,980	16,354	45,918	-52,749

MEMBER 47

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	-10,725	0,0	0,0	-4,844	18,466	12,584	-34,035
0,250		-10,725	0,0	0,0	-7,631	9,057	5,963	-27,413
0,500		-10,725	0,0	0,0	-10,418	-0,352	0,045	-21,495
0,750		-10,725	0,0	0,0	-13,205	-9,761	12,241	-35,691
1,000		-10,725	0,0	0,0	-15,992	-19,170	24,437	-45,887

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	17,055	0,0	0,0	15,427	15,493	45,976	-11,865
0,250		17,055	0,0	0,0	12,433	8,662	38,151	-4,040
0,500		17,055	0,0	0,0	9,439	3,832	30,326	3,785
0,750		17,055	0,0	0,0	6,445	-0,999	24,499	9,611
1,000		17,055	0,0	0,0	3,451	-5,830	26,336	7,775

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	-0,077	0,0	0,0	0,997	-5,014	5,934	-6,088
0,250		-0,077	0,0	0,0	0,433	-2,456	2,812	-2,966

0.500	-0.077	0.0	0.0	-0.130	0.102	0.156	-0.310
0.750	-0.077	0.0	0.0	-0.694	2.660	3.277	-3.431
1.000	-0.077	0.0	0.0	-1.258	5.218	6.399	-6.553

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.029	0.0	0.0	-0.020	-4.326	4.375	-4.317
0.250		0.029	0.0	0.0	-1.599	-2.204	3.832	-3.774
0.500		0.029	0.0	0.0	-3.178	-0.082	5.289	-3.231
0.750		0.029	0.0	0.0	-4.757	2.041	6.827	-6.769
1.000		0.029	0.0	0.0	-6.336	4.165	10.528	-10.470

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.161	0.0	0.0	6.573	-4.303	10.716	-11.038
0.250		-0.161	0.0	0.0	5.033	-1.997	6.869	-7.191
0.500		-0.161	0.0	0.0	3.493	0.310	3.641	-3.965
0.750		-0.161	0.0	0.0	1.952	2.617	4.408	-4.730
1.000		-0.161	0.0	0.0	0.412	4.923	5.174	-5.496

MEMBER 48

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-9.808	0.0	0.0	-4.475	-16.927	11.594	-31.210
0.250		-9.808	0.0	0.0	-0.749	-9.660	0.600	-20.216
0.500		-9.808	0.0	0.0	2.978	-2.393	-4.437	-15.179
0.750		-9.808	0.0	0.0	6.705	4.874	1.771	-21.388
1.000		-9.808	0.0	0.0	10.432	12.141	12.765	-32.381

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-17.245	0.0	0.0	15.404	-14.079	12.238	-46.728
0.250		-17.245	0.0	0.0	14.493	-8.818	6.067	-40.556
0.500		-17.245	0.0	0.0	13.583	-3.557	-0.105	-34.385
0.750		-17.245	0.0	0.0	12.672	1.704	-2.869	-31.621
1.000		-17.245	0.0	0.0	11.761	6.965	1.481	-35.971

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.124	0.0	0.0	1.059	4.369	5.304	-5.552
0.250		-0.124	0.0	0.0	0.706	2.290	2.872	-3.119
0.500		-0.124	0.0	0.0	0.352	0.211	0.439	-0.687
0.750		-0.124	0.0	0.0	-0.001	-1.868	1.746	-1.993
1.000		-0.124	0.0	0.0	-0.355	-3.947	4.178	-4.426

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.096	0.0	0.0	0.101	4.826	5.023	-4.831
0.250		0.096	0.0	0.0	0.741	2.335	3.172	-2.979
0.500		0.096	0.0	0.0	1.380	-0.156	1.633	-1.440
0.750		0.096	0.0	0.0	2.020	-2.647	4.763	-4.570
1.000		0.096	0.0	0.0	2.659	-5.137	7.893	-7.700

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.109	0.0	0.0	6.568	4.137	10.815	-10.596
0.250		0.109	0.0	0.0	5.555	1.953	7.617	-7.398
0.500		0.109	0.0	0.0	4.542	-0.232	4.883	-4.664
0.750		0.109	0.0	0.0	3.528	-2.416	6.054	-5.835

1.000	0.109	0.0	0.0	2.515	-4.601	7.225	-7.006

MEMBER 49

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	20.284	0.0	0.0	-16.222	-16.264	52.770	-12.202
0.250		20.284	0.0	0.0	-14.815	-9.504	44.602	-4.034
0.500		20.284	0.0	0.0	-13.407	-2.744	36.434	4.134
0.750		20.284	0.0	0.0	-11.999	4.016	36.300	4.269
1.000		20.284	0.0	0.0	-10.591	10.777	41.652	-1.084

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0.195	0.0	0.0	3.142	-2.056	5.393	-5.003
0.250		0.195	0.0	0.0	-0.496	-0.891	1.582	-1.192
0.500		0.195	0.0	0.0	-4.134	0.274	4.605	-4.214
0.750		0.195	0.0	0.0	-7.772	1.459	9.406	-9.017
1.000		0.195	0.0	0.0	-11.411	2.604	14.209	-13.820

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0.045	0.0	0.0	-0.278	4.780	5.104	-5.013
0.250		0.045	0.0	0.0	0.125	2.547	2.717	-2.627
0.500		0.045	0.0	0.0	0.529	0.315	0.887	-0.796
0.750		0.045	0.0	0.0	0.932	-1.921	2.899	-2.808
1.000		0.045	0.0	0.0	1.336	-4.155	5.536	-5.445

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
				STRESS				
0.0	FR	-0.129	0.0	0.0	-6.410	4.491	10.772	-11.030
0.250		-0.129	0.0	0.0	-5.485	2.127	7.483	-7.741
0.500		-0.129	0.0	0.0	-4.560	-0.237	4.669	-4.927
0.750		-0.129	0.0	0.0	-3.636	-2.602	6.108	-6.367
1.000		-0.129	0.0	0.0	-2.711	-4.966	7.548	-7.807

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
				STRESS				
0.0	FR	0.052	0.0	0.0	0.311	5.406	5.768	-5.665
0.250		0.052	0.0	0.0	-0.568	2.742	3.161	-3.058
0.500		0.052	0.0	0.0	-1.046	0.078	1.176	-1.072
0.750		0.052	0.0	0.0	-1.724	-2.586	4.361	-4.258
1.000		0.052	0.0	0.0	-2.402	-5.249	7.703	-7.600

MEMBER 50

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
				STRESS				
0.0	FR	90.334	0.0	0.0	-2.833	59.978	153.144	27.525
0.250		90.334	0.0	0.0	-3.042	41.610	134.986	45.681
0.500		90.334	0.0	0.0	-3.251	23.243	116.828	63.839
0.750		90.334	0.0	0.0	-3.461	4.876	98.670	81.997
1.000		90.334	0.0	0.0	-3.670	-13.492	107.495	73.172

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
				STRESS				

0.0	FR	-230,768	0.0	0.0	-121,945	61,165	-47,657	-413,878
0.250		-230,768	0.0	0.0	-91,943	37,650	-101,175	-360,361
0.500		-230,768	0.0	0.0	-61,941	14,134	-154,693	-306,843
0.750		-230,768	0.0	0.0	-31,939	-9,382	-189,447	-272,089
1.000		-230,768	0.0	0.0	-1,937	-32,897	-195,933	-265,602

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	38,959	0.0	0.0	-523,302	-10,077	572,338	-494,420
0.250		38,959	0.0	0.0	-259,200	-6,914	305,073	-227,155
0.500		38,959	0.0	0.0	4,902	-3,752	47,612	30,306
0.750		38,959	0.0	0.0	269,003	-0,589	308,551	-230,633
1.000		38,959	0.0	0.0	533,105	2,574	574,638	-496,720

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	33,314	0.0	0.0	-8,409	-7,206	48,929	17,699
0.250		33,314	0.0	0.0	-6,296	-4,411	44,021	22,607
0.500		33,314	0.0	0.0	-4,183	-1,616	39,113	27,516
0.750		33,314	0.0	0.0	-2,070	1,179	36,563	30,065
1.000		33,314	0.0	0.0	0,043	3,974	37,352	29,297

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-49,457	0.0	0.0	-51,084	1,639	3,267	-102,180
0.250		-49,457	0.0	0.0	-38,194	-0,190	-11,073	-87,840
0.500		-49,457	0.0	0.0	-25,303	-2,019	-22,135	-76,778
0.750		-49,457	0.0	0.0	-12,412	-3,848	-33,197	-65,717
1.000		-49,457	0.0	0.0	0,479	-5,677	-43,301	-55,613

MEMBER 51

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	90,398	0.0	0.0	-3,394	-6,835	100,627	80,169
0.250		90,398	0.0	0.0	-4,802	-4,951	100,150	80,645
0.500		90,398	0.0	0.0	-6,210	-3,066	99,674	81,121
0.750		90,398	0.0	0.0	-7,618	-1,182	99,198	81,598
1.000		90,398	0.0	0.0	-9,026	0,702	100,126	80,670

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-214,699	0.0	0.0	-4,759	-22,951	-187,010	-242,388
0.250		-214,699	0.0	0.0	25,100	-20,836	-168,762	-260,635
0.500		-214,699	0.0	0.0	54,959	-18,742	-140,998	-288,400
0.750		-214,699	0.0	0.0	84,818	-16,648	-113,233	-316,165
1.000		-214,699	0.0	0.0	114,677	-14,554	-85,468	-343,930

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	38,991	0.0	0.0	532,863	-0,657	572,492	-494,509
0.250		38,991	0.0	0.0	272,021	0,520	311,553	-233,551
0.500		38,991	0.0	0.0	11,180	1,678	51,850	26,133
0.750		38,991	0.0	0.0	-249,662	2,836	291,489	-213,507
1.000		38,991	0.0	0.0	-510,503	3,994	555,488	-475,506

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	33,432	0.0	0.0	-0,196	-2,023	35,651	31,212

0.250	33,432	0.0	0.0	1,500	1,208	36,139	30,723
0.500	33,432	0.0	0.0	3,196	4,439	41,067	25,796
0.750	33,432	0.0	0.0	4,892	7,670	45,994	20,869
1.000	33,432	0.0	0.0	6,588	10,901	50,921	15,942

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-49,467	0.0	0.0	-0,849	-8,959	-39,658	-59,276
0.250		-49,467	0.0	0.0	12,004	-4,077	-33,386	-65,548
0.500		-49,467	0.0	0.0	24,857	0,805	-23,804	-75,129
0.750		-49,467	0.0	0.0	37,710	5,687	-6,069	-92,865
1.000		-49,467	0.0	0.0	50,564	10,570	11,667	-110,600

MEMBER 52

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	144,135	0.0	0.0	-103,281	-6,379	253,795	34,474
0.250		144,135	0.0	0.0	-78,129	-7,702	229,966	58,304
0.500		144,135	0.0	0.0	-52,977	-9,025	206,136	82,133
0.750		144,135	0.0	0.0	-27,825	-10,347	182,307	105,963
1.000		144,135	0.0	0.0	-2,673	-11,670	158,477	129,792

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	196,734	0.0	0.0	-54,346	-26,734	277,813	115,654
0.250		196,734	0.0	0.0	-40,207	-19,943	256,884	136,584
0.500		196,734	0.0	0.0	-26,068	-13,152	235,954	157,513
0.750		196,734	0.0	0.0	-11,930	-6,361	215,025	178,443
1.000		196,734	0.0	0.0	2,209	0,430	199,372	194,095

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	25,110	0.0	0.0	520.255	-0.044	545.409	-495.190
0.250		25,110	0.0	0.0	257.097	0.626	282.833	-232.613
0.500		25,110	0.0	0.0	-6.062	1.297	32.469	17.751
0.750		25,110	0.0	0.0	-269.220	1.968	296.298	-246.078
1.000		25,110	0.0	0.0	-532.379	2.638	560.127	-509.907

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	40,660	0.0	0.0	-33.679	9.811	84.151	-2.831
0.250		40,660	0.0	0.0	-25.655	6.008	72.322	8.997
0.500		40,660	0.0	0.0	-17.630	2.204	60.494	20.826
0.750		40,660	0.0	0.0	-9.605	-1.599	51.864	29.456
1.000		40,660	0.0	0.0	-1.580	-5.403	47.643	33.677

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	53,637	0.0	0.0	-14.697	8.948	77.482	29.793
0.250		53,637	0.0	0.0	-11.228	5.214	70.079	37.196
0.500		53,637	0.0	0.0	-7.558	1.480	62.676	44.599
0.750		53,637	0.0	0.0	-3.889	-2.254	59.780	47.495
1.000		53,637	0.0	0.0	-0.220	-5.987	59.844	47.430

MEMBER 53

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	130,076	0.0	0.0	-4,882	-35,488	170,447	89,706
0.250		130,076	0.0	0.0	19,561	-12,801	162,439	97,714
0.500		130,076	0.0	0.0	44,004	9,886	183,966	76,187
0.750		130,076	0.0	0.0	68,447	32,573	231,096	29,057
1.000		130,076	0.0	0.0	92,889	55,260	278,226	-18,073

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	188,964	0.0	0.0	0.571	4,072	193,607	184,321
0.250		188,964	0.0	0.0	15,674	-5,571	210,209	167,718
0.500		188,964	0.0	0.0	30,777	-15,215	234,955	142,972
0.750		188,964	0.0	0.0	45,880	-24,858	259,702	118,226
1.000		188,964	0.0	0.0	60,983	-34,502	284,448	93,479

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	25,060	0.0	0.0	-532,123	4,801	561,983	-511,863
0.250		25,060	0.0	0.0	-270,491	1,464	297,015	-246,895
0.500		25,060	0.0	0.0	-8,860	-1,873	35,793	14,327
0.750		25,060	0.0	0.0	252,771	-5,210	283,041	-232,920
1.000		25,060	0.0	0.0	514,402	-8,546	548,009	-497,888

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	40,631	0.0	0.0	-2,044	-5,497	48,172	33,090
0.250		40,631	0.0	0.0	5,740	-3,550	49,922	31,340
0.500		40,631	0.0	0.0	13,525	-1,604	55,760	25,502
0.750		40,631	0.0	0.0	21,310	0,343	62,284	18,978
1.000		40,631	0.0	0.0	29,094	2,290	72,015	9,247

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	53,756	0.0	0.0	-0.452	-0.856	55,064	52,448
0.250		53,756	0.0	0.0	3,566	-2,887	60,209	47,303
0.500		53,756	0.0	0.0	7,584	-4,918	66,258	41,254
0.750		53,756	0.0	0.0	11,602	-6,949	72,307	35,205
1.000		53,756	0.0	0.0	15,620	-8,980	78,357	29,156

MEMBER 54

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-225,168	0.0	0.0	105,527	56,607	-63,035	-387,301
0.250		-225,168	0.0	0.0	78,776	42,956	-105,435	-346,900
0.500		-225,168	0.0	0.0	52,026	29,306	-143,836	-306,499
0.750		-225,168	0.0	0.0	25,275	15,655	-184,237	-266,098
1.000		-225,168	0.0	0.0	-1,475	2,005	-221,688	-228,647

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	17,026	0.0	0.0	-52,083	74,184	143,293	-109,241
0.250		17,026	0.0	0.0	-37,908	45,537	100,471	-66,419
0.500		17,026	0.0	0.0	-23,732	16,890	57,649	-23,597
0.750		17,026	0.0	0.0	-9,557	-11,756	38,340	-4,287
1.000		17,026	0.0	0.0	4,618	-40,403	62,048	-27,995

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	28,375	0.0	0.0	-512,439	-14,428	555,242	-498,492
0.250		28,375	0.0	0.0	-251,412	-9,264	289,051	-232,302
0.500		28,375	0.0	0.0	9,615	-4,100	42,090	14,660
0.750		28,375	0.0	0.0	270,642	1,064	300,080	-243,330
1.000		28,375	0.0	0.0	531,669	6,228	566,271	-509,521

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE / STRESS /

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-58,018	0.0	0.0	44,828	-8,514	-4,675	-111,360
0.250		-58,018	0.0	0.0	33,480	-4,271	-20,267	-95,769
0.500		-58,018	0.0	0.0	22,131	-0,029	-35,858	-80,177
0.750		-58,018	0.0	0.0	10,783	4,214	-43,020	-73,015
1.000		-58,018	0.0	0.0	-0,566	8,457	-48,995	-67,041

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE / STRESS /

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	11,393	0.0	0.0	-12,569	1,722	25,684	-2,898
0.250		11,393	0.0	0.0	-9,021	0,545	20,959	1,827
0.500		11,393	0.0	0.0	-5,472	-0,631	17,496	5,290
0.750		11,393	0.0	0.0	-1,924	-1,807	15,124	7,662
1.000		11,393	0.0	0.0	1,625	-2,984	16,002	6,784

MEMBER 55

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE / STRESS /

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-258,780	0.0	0.0	1,185	24,174	-213,422	-264,138
0.250		-258,780	0.0	0.0	-25,107	7,096	-206,576	-270,983

0.500	-238,780	0.0	0.0	-51,399	-9,982	-177,399	-300,161
0.750	-238,780	0.0	0.0	-77,691	-27,059	-134,030	-343,531
1.000	-238,780	0.0	0.0	-105,983	-44,137	-90,660	-386,900

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	25,503	0.0	0.0	3,552	-21,284	50,338	0.668
0.250	25,503	0.0	0.0	18,834	-7,206	51,543	-0.537
0.500	25,503	0.0	0.0	34,117	6,872	66,491	-15,485
0.750	25,503	0.0	0.0	49,399	20,949	95,851	-44,845
1.000	25,503	0.0	0.0	64,681	35,027	125,211	-74,205

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	28,289	0.0	0.0	531,891	2,068	562,247	-505,669
0.250	28,289	0.0	0.0	268,127	2,335	298,750	-242,173
0.500	28,289	0.0	0.0	4,364	2,601	35,254	21,324
0.750	28,289	0.0	0.0	-259,400	2,868	290,557	-233,979
1.000	28,289	0.0	0.0	-523,163	3,135	554,587	-498,009

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-57,984	0.0	0.0	0.667	6,793	-50,525	-65,443
0.250	-57,984	0.0	0.0	-10,517	4,522	-42,946	-73,023
0.500	-57,984	0.0	0.0	-21,700	2,252	-34,033	-81,935
0.750	-57,984	0.0	0.0	-32,883	-0.019	-25,083	-90,886
1.000	-57,984	0.0	0.0	-44,066	-2,289	-11,629	-104,339

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

0.0	FR	11.445	0.0	0.0	1.543	-2.489	15.477	7.413
0.250		11.445	0.0	0.0	5.477	0.183	17.105	5.784
0.500		11.445	0.0	0.0	9.412	2.856	23.712	-0.823
0.750		11.445	0.0	0.0	13.346	5.528	30.319	-7.430
1.000		11.445	0.0	0.0	17.281	8.201	36.927	-14.037

MEMBER 56

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-9.082	0.0	0.0	-1.262	4.611	-3.189	-14.975
0.250		-9.082	0.0	0.0	-3.795	-0.308	-4.980	-13.184
0.500		-9.082	0.0	0.0	-6.307	-5.226	2.451	-20.615
0.750		-9.082	0.0	0.0	-8.819	-10.145	9.882	-28.046
1.000		-9.082	0.0	0.0	-11.332	-15.064	17.313	-35.477

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	16.617	0.0	0.0	12.067	16.798	45.483	-12.248
0.250		16.617	0.0	0.0	10.213	7.211	34.042	-0.807
0.500		16.617	0.0	0.0	8.358	-2.375	27.350	5.884
0.750		16.617	0.0	0.0	6.504	-11.961	35.082	-1.847
1.000		16.617	0.0	0.0	4.649	-21.547	42.814	-9.579

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.016	0.0	0.0	1.019	-3.709	4.712	-4.745
0.250		-0.016	0.0	0.0	0.411	-1.705	2.100	-2.132
0.500		-0.016	0.0	0.0	-0.197	0.500	0.480	-0.513
0.750		-0.016	0.0	0.0	-0.805	2.304	3.093	-3.125

1.000	-0.016	0.0	0.0	-1.415	4.308	5.705	-5.738

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						
0.0 FR	0.193	0.0	0.0	0.983	-6.278	7.454	-7.068
0.250	0.193	0.0	0.0	-0.576	-5.825	4.593	-4.208
0.500	0.193	0.0	0.0	-2.135	-1.371	3.699	-3.314
0.750	0.193	0.0	0.0	-3.694	1.082	4.969	-4.584
1.000	0.193	0.0	0.0	-5.254	3.535	8.982	-8.596

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						
0.0 FR	0.055	0.0	0.0	5.678	-1.328	7.062	-6.951
0.250	0.055	0.0	0.0	4.355	-1.264	5.674	-5.563
0.500	0.055	0.0	0.0	3.031	-1.199	4.286	-4.175
0.750	0.055	0.0	0.0	1.707	-1.135	2.897	-2.787
1.000	0.055	0.0	0.0	0.384	-1.070	1.509	-1.399

MEMBER 57

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						
0.0 FR	-9.715	0.0	0.0	-1.078	-8.086	-0.550	-18.879
0.250	-9.715	0.0	0.0	1.541	-1.471	-6.702	-12.727
0.500	-9.715	0.0	0.0	4.161	5.144	-0.410	-19.019
0.750	-9.715	0.0	0.0	6.781	11.759	8.825	-28.254
1.000	-9.715	0.0	0.0	9.400	18.374	18.059	-37.489

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-15.702	0.0	0.0	12.066	-2.212	-1.423	-29.981
0.250		-15.702	0.0	0.0	10.824	-3.523	-1.355	-30.049
0.500		-15.702	0.0	0.0	9.581	-4.834	-1.287	-30.117
0.750		-15.702	0.0	0.0	8.338	-6.145	-1.219	-30.185
1.000		-15.702	0.0	0.0	7.096	-7.456	-1.151	-30.253

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.054	0.0	0.0	1.048	2.416	3.409	-3.518
0.250		-0.054	0.0	0.0	0.628	1.373	1.947	-2.056
0.500		-0.054	0.0	0.0	0.209	0.330	0.485	-0.593
0.750		-0.054	0.0	0.0	-0.210	-0.713	0.869	-0.977
1.000		-0.054	0.0	0.0	-0.629	-1.756	2.331	-2.440

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.166	0.0	0.0	1.061	5.161	6.056	-6.389
0.250		-0.166	0.0	0.0	1.288	3.546	4.668	-5.001
0.500		-0.166	0.0	0.0	1.515	1.931	3.280	-3.613
0.750		-0.166	0.0	0.0	1.743	0.316	1.892	-2.225
1.000		-0.166	0.0	0.0	1.970	-1.299	3.102	-3.435

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0.186	0.0	0.0	5.681	4.932	10.799	-10.427
0.250		0.186	0.0	0.0	4.518	2.175	6.879	-6.506
0.500		0.186	0.0	0.0	3.355	-0.583	4.123	-3.751
0.750		0.186	0.0	0.0	2.191	-3.340	5.718	-5.345
1.000		0.186	0.0	0.0	1.028	-6.097	7.312	-6.939

MEMBER 58

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	18.753	0.0	0.0	-11.430	-27.220	57.404	-19.897
0.250		18.753	0.0	0.0	-10.949	-13.651	43.354	-5.847
0.500		18.753	0.0	0.0	-10.467	-0.083	29.303	8.203
0.750		18.753	0.0	0.0	-9.986	13.486	42.226	-4.719
1.000		18.753	0.0	0.0	-9.505	27.055	55.314	-17.807

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.841	0.0	0.0	4.479	-14.920	18.558	-20.239
0.250		-0.841	0.0	0.0	1.628	-11.063	11.850	-13.532
0.500		-0.841	0.0	0.0	-1.222	-7.206	7.587	-9.268
0.750		-0.841	0.0	0.0	-4.073	-3.349	6.580	-8.262
1.000		-0.841	0.0	0.0	-6.923	0.508	6.591	-8.272

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0.232	0.0	0.0	-0.487	3.626	4.345	-3.882
0.250		0.232	0.0	0.0	0.025	2.128	2.384	-1.921
0.500		0.232	0.0	0.0	0.537	0.629	1.398	-0.935
0.750		0.232	0.0	0.0	1.049	-0.869	2.150	-1.687
1.000		0.232	0.0	0.0	1.561	-2.368	4.160	-3.697

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.009	0.0	0.0	-5.292	-0.360	5.642	-5.661
0.250		-0.009	0.0	0.0	-4.469	0.100	4.560	-4.578
0.500		-0.009	0.0	0.0	-3.647	0.560	4.197	-4.216
0.750		-0.009	0.0	0.0	-2.825	1.019	3.835	-3.853
1.000		-0.009	0.0	0.0	-2.002	1.479	3.472	-3.491

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.191	0.0	0.0	0.322	0.127	0.258	-0.641
0.250		-0.191	0.0	0.0	0.001	-0.827	0.637	-1.020
0.500		-0.191	0.0	0.0	-0.319	-1.781	1.909	-2.291
0.750		-0.191	0.0	0.0	-0.639	-2.735	3.183	-3.566
1.000		-0.191	0.0	0.0	-0.960	-3.690	4.458	-4.841

MEMBER 59

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	6.586	0.0	0.0	-6.787	58.609	71.982	-58.810
0.250		6.586	0.0	0.0	-3.850	25.071	35.508	-22.336
0.500		6.586	0.0	0.0	-0.914	-8.466	15.966	-2.794
0.750		6.586	0.0	0.0	2.023	-42.004	50.613	-37.441
1.000		6.586	0.0	0.0	4.960	-75.542	87.088	-73.916

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	434.225	0.0	0.0	-149.237	57.186	640.647	227.802

0.250	434.225	0.0	0.0	-52.270	27.475	513.969	354.480
0.500	434.225	0.0	0.0	44.697	-2.236	481.158	387.291
0.750	434.225	0.0	0.0	141.663	-31.947	607.835	260.614
1.000	434.225	0.0	0.0	238.630	-61.658	734.513	133.936

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-15.054	0.0	0.0	24.665	-5.388	14.999	-45.107
0.250		-15.054	0.0	0.0	10.388	-2.458	-2.208	-27.900
0.500		-15.054	0.0	0.0	-3.888	0.472	-10.693	-19.414
0.750		-15.054	0.0	0.0	-18.165	3.402	6.513	-36.621
1.000		-15.054	0.0	0.0	-32.441	6.333	23.720	-55.828

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-9.011	0.0	0.0	4.822	-3.077	-1.113	-16.910
0.250		-9.011	0.0	0.0	0.898	-1.647	-6.467	-11.556
0.500		-9.011	0.0	0.0	-3.026	-0.217	-5.768	-12.255
0.750		-9.011	0.0	0.0	-6.950	1.212	-0.849	-17.174
1.000		-9.011	0.0	0.0	-10.874	2.642	4.504	-22.527

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	101.402	0.0	0.0	-33.002	1.171	135.576	67.229
0.250		101.402	0.0	0.0	-13.762	1.060	116.225	86.580
0.500		101.402	0.0	0.0	5.478	0.949	107.830	94.975
0.750		101.402	0.0	0.0	24.718	0.838	126.959	75.846
1.000		101.402	0.0	0.0	43.958	0.727	146.088	56.717

MEMBER 60

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-370.708	0.0	0.0	-113.996	60.499	-196.214	-545.202
0.250		-370.708	0.0	0.0	-45.251	15.390	-310.066	-431.350
0.500		-370.708	0.0	0.0	23.493	-29.718	-317.498	-423.918
0.750		-370.708	0.0	0.0	92.237	-74.826	-203.645	-537.771
1.000		-370.708	0.0	0.0	160.981	-119.934	-89.793	-651.623

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-214.327	0.0	0.0	-62.879	33.544	-117.904	-310.750
0.250		-214.327	0.0	0.0	-21.798	8.649	-183.879	-244.774
0.500		-214.327	0.0	0.0	19.282	-16.246	-178.798	-249.855
0.750		-214.327	0.0	0.0	60.363	-41.141	-112.822	-315.831
1.000		-214.327	0.0	0.0	101.444	-66.036	-46.846	-381.807

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.660	0.0	0.0	-13.925	10.010	24.595	-23.274
0.250		0.660	0.0	0.0	-8.265	4.064	12.989	-11.668
0.500		0.660	0.0	0.0	-2.604	-1.883	5.147	-3.826
0.750		0.660	0.0	0.0	3.056	-7.829	11.545	-10.224
1.000		0.660	0.0	0.0	8.716	-13.775	23.152	-21.831

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-97.812	0.0	0.0	-26.717	26.134	-44.962	-150.663
0.250		-97.812	0.0	0.0	-11.652	10.106	-76.055	-119.570
0.500		-97.812	0.0	0.0	3.414	-5.922	-88.477	-107.148

0.750	-97,812	0.0	0.0	18,479	-21,950	-57,383	-138,241
1.000	-97,812	0.0	0.0	33,545	-37,978	-26,290	-169,335

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-57,757	0.0	0.0	-14,450	16,551	-26,755	-88,758
0.250		-57,757	0.0	0.0	-5,546	6,396	-45,815	-69,698
0.500		-57,757	0.0	0.0	3,358	-3,760	-50,639	-64,875
0.750		-57,757	0.0	0.0	12,262	-13,916	-31,579	-83,935
1.000		-57,757	0.0	0.0	21,167	-24,072	-12,519	-102,995

MEMBER 61

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	375,278	0.0	0.0	131,953	29,883	537,114	213,443
0.250		375,278	0.0	0.0	50,312	4,169	429,759	320,797
0.500		375,278	0.0	0.0	-31,328	-21,546	428,152	322,404
0.750		375,278	0.0	0.0	-112,968	-47,261	535,507	215,049
1.000		375,278	0.0	0.0	-194,609	-72,975	642,862	107,694

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-208,447	0.0	0.0	-58,737	-44,922	-104,788	-312,106
0.250		-208,447	0.0	0.0	-22,130	-17,192	-169,126	-247,769
0.500		-208,447	0.0	0.0	14,477	10,538	-183,432	-233,463
0.750		-208,447	0.0	0.0	51,084	38,269	-119,095	-297,800
1.000		-208,447	0.0	0.0	87,691	65,999	-54,757	-362,137

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-2,215	0.0	0.0	-16,604	-6,181	20,570	-25,001
0.250		-2,215	0.0	0.0	-7,365	-3,940	9,089	-13,520
0.500		-2,215	0.0	0.0	1,874	-1,698	1,357	-5,788
0.750		-2,215	0.0	0.0	11,113	0,543	9,441	-13,871
1.000		-2,215	0.0	0.0	20,352	2,785	20,921	-25,352

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	92,527	0.0	0.0	24,126	18,106	134,759	50,294
0.250		92,527	0.0	0.0	10,080	6,432	109,038	76,015
0.500		92,527	0.0	0.0	-5,967	-5,243	101,736	83,317
0.750		92,527	0.0	0.0	-18,013	-16,917	127,457	57,596
1.000		92,527	0.0	0.0	-32,060	-28,592	153,178	31,875

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-57,529	0.0	0.0	-20,559	-11,094	-25,677	-89,181
0.250		-57,529	0.0	0.0	-8,246	-5,532	-43,950	-71,107
0.500		-57,529	0.0	0.0	4,066	0,429	-53,033	-62,024
0.750		-57,529	0.0	0.0	16,379	6,190	-34,960	-80,098
1.000		-57,529	0.0	0.0	28,691	11,951	-16,886	-98,172

MEMBER 62

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-78.491	0.0	0.0	-15.594	79.286	16.390	-173.372
0.250		-78.491	0.0	0.0	-9.265	49.495	-19.731	-137.251
0.500		-78.491	0.0	0.0	-2.936	19.704	-55.851	-101.131
0.750		-78.491	0.0	0.0	3.393	-10.087	-65.010	-91.972
1.000		-78.491	0.0	0.0	9.723	-39.879	-28.890	-128.092

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-209.731	0.0	0.0	-396.443	90.257	276.969	-696.432
0.250		-209.731	0.0	0.0	-198.205	43.569	32.042	-451.505
0.500		-209.731	0.0	0.0	0.034	-3.119	-206.578	-212.884
0.750		-209.731	0.0	0.0	198.272	-49.808	38.349	-457.811
1.000		-209.731	0.0	0.0	396.511	-96.496	285.275	-702.738

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	5.943	0.0	0.0	6.637	-10.404	22.984	-11.098
0.250		5.943	0.0	0.0	-0.720	-6.229	12.892	-1.007
0.500		5.943	0.0	0.0	-8.078	-2.054	16.074	-4.188
0.750		5.943	0.0	0.0	-15.435	2.122	23.499	-11.613
1.000		5.943	0.0	0.0	-22.792	6.297	35.032	-23.146

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-17.122	0.0	0.0	1.644	-3.530	-11.947	-22.297
0.250		-17.122	0.0	0.0	-0.675	-0.457	-15.989	-18.255
0.500		-17.122	0.0	0.0	-2.995	2.616	-11.511	-22.733
0.750		-17.122	0.0	0.0	-5.315	5.688	-6.118	-28.126
1.000		-17.122	0.0	0.0	-7.635	8.761	-0.726	-33.518

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-49,243	0.0	0.0	-80,978	4,488	36,223	-134,709
0.250		-49,243	0.0	0.0	-41,332	1,784	-6,127	-92,359
0.500		-49,243	0.0	0.0	-1,686	-0,920	-46,637	-51,850
0.750		-49,243	0.0	0.0	37,960	-3,624	-7,660	-90,827
1.000		-49,243	0.0	0.0	77,606	-6,328	24,690	-133,176

MEMBER 63

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	225,656	0.0	0.0	-350,257	-33,677	609,589	-158,278
0.250		225,656	0.0	0.0	-177,384	-15,891	418,931	32,380
0.500		225,656	0.0	0.0	-4,512	1,894	232,061	219,250
0.750		225,656	0.0	0.0	168,361	19,679	413,695	37,616
1.000		225,656	0.0	0.0	341,234	37,464	604,354	-153,042

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	32,103	0.0	0.0	-193,264	-16,241	241,609	-177,402
0.250		32,103	0.0	0.0	-95,045	-21,452	148,600	-84,393
0.500		32,103	0.0	0.0	3,174	-26,662	61,940	2,267
0.750		32,103	0.0	0.0	101,393	-31,873	165,370	-101,165
1.000		32,103	0.0	0.0	199,613	-37,084	268,600	-204,593

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	1.008	0.0	0.0	17.093	2.620	20.720	-18.705
0.250		1.008	0.0	0.0	11.692	0.982	13.681	-11.666
0.500		1.008	0.0	0.0	6.291	-0.656	7.955	-5.940
0.750		1.008	0.0	0.0	0.890	-2.294	4.192	-2.177
1.000		1.008	0.0	0.0	-4.511	-3.932	9.451	-7.455

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	52.274	0.0	0.0	-65.113	5.393	120.779	-16.231
0.250		52.274	0.0	0.0	-30.619	3.065	85.957	18.590
0.500		52.274	0.0	0.0	1.875	0.737	54.886	49.662
0.750		52.274	0.0	0.0	34.368	-1.591	88.233	16.314
1.000		52.274	0.0	0.0	66.862	-5.919	123.055	-18.507

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	7.539	0.0	0.0	-33.364	5.542	46.445	-31.367
0.250		7.539	0.0	0.0	-15.309	1.210	24.058	-8.980
0.500		7.539	0.0	0.0	2.746	-3.122	13.407	1.671
0.750		7.539	0.0	0.0	20.801	-7.455	35.795	-20.717
1.000		7.539	0.0	0.0	38.856	-11.787	58.182	-43.104

MEMBER 64

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-158.250	0.0	0.0	337.990	126.747	306.487	-622.987
0.250		-158.250	0.0	0.0	167.407	72.280	81.437	-397.937
0.500		-158.250	0.0	0.0	-3.174	17.813	-137.262	-179.237
0.750		-158.250	0.0	0.0	-173.756	-36.654	52.160	-368.660

1.000	-158.250	0.0	0.0	-344.338	-91.121	277.209	-593.709

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	172.610	0.0	0.0	-165.807	43.382	401.800	-56.579
0.250	172.610	0.0	0.0	-90.660	33.463	296.733	48.488
0.500	172.610	0.0	0.0	4.486	23.543	200.639	144.582
0.750	172.610	0.0	0.0	99.633	13.623	285.866	59.355
1.000	172.610	0.0	0.0	194.780	3.703	371.093	-25.872

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-3.479	0.0	0.0	-2.018	-11.747	10.287	-17.245
0.250	-3.479	0.0	0.0	-3.921	-6.572	7.014	-13.973
0.500	-3.479	0.0	0.0	-5.824	-1.398	3.742	-10.700
0.750	-3.479	0.0	0.0	-7.726	3.777	8.024	-14.982
1.000	-3.479	0.0	0.0	-9.629	8.952	15.102	-22.060

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-38.597	0.0	0.0	76.389	8.113	45.905	-123.099
0.250	-38.597	0.0	0.0	37.721	4.996	4.120	-81.314
0.500	-38.597	0.0	0.0	-0.948	1.879	-35.771	-41.424
0.750	-38.597	0.0	0.0	-39.616	-1.238	2.257	-79.451
1.000	-38.597	0.0	0.0	-78.284	-4.355	44.042	-121.236

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	37.964	0.0	0.0	-36.369	-0.082	74.416	1.513
0.250	37.964	0.0	0.0	-18.840	1.060	57.865	18.064

0.500	37.964	0.0	0.0	-1.312	2.202	41.478	34.450
0.750	37.964	0.0	0.0	16.217	3.345	57.526	18.402
1.000	37.964	0.0	0.0	33.746	4.487	76.198	-0.269

MEMBER 65

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	249.304	0.0	0.0	40.799	187.777	477.880	20.727
0.250	249.304	0.0	0.0	23.469	135.148	407.920	90.687
0.500	249.304	0.0	0.0	6.138	82.518	337.960	160.647
0.750	249.304	0.0	0.0	-11.192	29.889	290.385	208.222
1.000	249.304	0.0	0.0	-28.523	-22.740	300.566	198.041

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-333.703	0.0	0.0	-354.732	243.407	264.437	-931.842
0.250	-333.703	0.0	0.0	-260.456	151.514	78.067	-745.472
0.500	-333.703	0.0	0.0	-166.180	59.220	-108.302	-559.103
0.750	-333.703	0.0	0.0	-71.904	-32.873	-228.925	-438.480
1.000	-333.703	0.0	0.0	22.372	-124.967	-186.364	-481.041

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-222.965	0.0	0.0	-18.534	-45.713	-158.718	-287.212
0.250	-222.965	0.0	0.0	-8.052	-27.102	-187.811	-258.119
0.500	-222.965	0.0	0.0	2.429	-8.491	-212.045	-233.885
0.750	-222.965	0.0	0.0	12.910	10.120	-199.934	-245.996
1.000	-222.965	0.0	0.0	23.392	28.731	-170.842	-275.088

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-29,547	0.0	0.0	2,505	0,671	-26,370	-32,723
0.250		-29,547	0.0	0.0	2,264	1,788	-25,495	-33,599
0.500		-29,547	0.0	0.0	2,023	2,904	-24,619	-34,474
0.750		-29,547	0.0	0.0	1,782	4,021	-23,744	-35,350
1.000		-29,547	0.0	0.0	1,542	5,137	-22,868	-36,225

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-71,094	0.0	0.0	-38,729	3,964	-28,400	-113,788
0.250		-71,094	0.0	0.0	-26,672	2,782	-81,640	-100,548
0.500		-71,094	0.0	0.0	-14,615	1,599	-54,880	-87,308
0.750		-71,094	0.0	0.0	-2,558	0,416	-68,120	-74,069
1.000		-71,094	0.0	0.0	9,499	-0,767	-60,829	-81,360

MEMBER 66

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	253,199	0.0	0.0	-29,426	2,543	285,167	221,230
0.250		253,199	0.0	0.0	-18,227	-12,547	283,972	222,425
0.500		253,199	0.0	0.0	-7,028	-27,636	287,863	218,534
0.750		253,199	0.0	0.0	4,171	-42,726	300,095	206,302
1.000		253,199	0.0	0.0	15,369	-57,816	326,384	180,014

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-321.543	0.0	0.0	-21.290	-91.800	-208.453	-434.633
0.250	-321.543	0.0	0.0	75.425	-77.846	-168.273	-474.814
0.500	-321.543	0.0	0.0	172.140	-63.891	-85.512	-557.574
0.750	-321.543	0.0	0.0	268.854	-49.937	-2.752	-640.334
1.000	-321.543	0.0	0.0	365.569	-35.983	80.008	-723.095

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-223.006	0.0	0.0	19.706	24.941	-178.360	-267.652
0.250	-223.006	0.0	0.0	18.230	12.338	-192.439	-253.573
0.500	-223.006	0.0	0.0	16.754	-0.265	-205.987	-240.025
0.750	-223.006	0.0	0.0	15.278	-12.868	-194.860	-251.152
1.000	-223.006	0.0	0.0	13.802	-25.472	-183.733	-262.279

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-29.156	0.0	0.0	0.451	1.911	-26.793	-31.518
0.250	-29.156	0.0	0.0	3.297	2.769	-23.089	-35.222
0.500	-29.156	0.0	0.0	6.143	3.627	-19.386	-38.926
0.750	-29.156	0.0	0.0	8.989	4.485	-15.682	-42.630
1.000	-29.156	0.0	0.0	11.835	5.343	-11.978	-46.334

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-71.950	0.0	0.0	2.107	-0.922	-68.921	-74.980
0.250	-71.950	0.0	0.0	14.528	-2.287	-55.135	-88.765
0.500	-71.950	0.0	0.0	26.948	-3.652	-41.350	-102.550
0.750	-71.950	0.0	0.0	39.369	-5.016	-27.565	-116.335
1.000	-71.950	0.0	0.0	51.789	-6.381	-13.780	-130.120

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LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	385,209	0.0	0.0	-319,215	-96,806	801,231	-30,812
0.250		385,209	0.0	0.0	-236,721	-77,776	699,706	70,713
0.500		385,209	0.0	0.0	-154,227	-58,745	598,182	172,237
0.750		385,209	0.0	0.0	-71,734	-39,714	496,657	273,761
1.000		385,209	0.0	0.0	10,760	-20,683	416,653	353,766

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	501,795	0.0	0.0	-235,554	-79,435	816,784	186,807
0.250		501,795	0.0	0.0	-168,390	-67,684	737,869	265,721
0.500		501,795	0.0	0.0	-101,226	-55,933	658,955	344,636
0.750		501,795	0.0	0.0	-34,062	-44,182	580,040	423,551
1.000		501,795	0.0	0.0	33,102	-32,432	567,328	436,262

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-186,604	0.0	0.0	22,457	35,240	-130,907	-242,300
0.250		-186,604	0.0	0.0	11,856	17,293	-157,455	-215,752
0.500		-186,604	0.0	0.0	1,255	1,345	-184,004	-189,204
0.750		-186,604	0.0	0.0	-9,346	-14,602	-162,656	-210,552
1.000		-186,604	0.0	0.0	-19,947	-30,549	-136,107	-237,100

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0	FR	-22.934	0.0	0.0	-37.162	16.208	30.436	-76.304
0.250		-22.934	0.0	0.0	-29.153	9.153	15.371	-61.239
0.500		-22.934	0.0	0.0	-21.144	2.097	0.307	-46.175
0.750		-22.934	0.0	0.0	-13.135	-4.959	-8.840	-31.028
1.000		-22.934	0.0	0.0	-5.126	-12.014	-5.794	-40.074

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-10.453	0.0	0.0	-26.070	5.427	19.044	-39.950
0.250		-10.453	0.0	0.0	-19.542	0.656	9.745	-30.651
0.500		-10.453	0.0	0.0	-13.015	-2.116	4.678	-25.584
0.750		-10.453	0.0	0.0	-6.487	-4.888	0.922	-21.828
1.000		-10.453	0.0	0.0	0.040	-7.659	-2.753	-18.152

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LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	363.502	0.0	0.0	-42.595	-141.109	547.006	179.999
0.250		363.502	0.0	0.0	55.363	-48.748	463.610	263.395
0.500		363.502	0.0	0.0	153.121	51.620	568.244	158.761
0.750		363.502	0.0	0.0	250.880	147.985	762.367	-35.362
1.000		363.502	0.0	0.0	348.637	244.350	956.490	-229.485

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	499.792	0.0	0.0	8.299	-42.132	550.223	449.360
0.250		499.792	0.0	0.0	50.233	-39.216	589.240	410.344
0.500		499.792	0.0	0.0	92.167	-36.299	628.257	371.327

0.750	499.792	0.0	0.0	134.100	-33.382	667.274	332.310
1.000	499.792	0.0	0.0	176.034	-30.465	706.291	293.292

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-186.462	0.0	0.0	-14.067	-21.966	-150.430	-222.495
0.250		-186.462	0.0	0.0	-13.846	-13.287	-159.329	-213.595
0.500		-186.462	0.0	0.0	-13.626	-4.608	-168.229	-204.696
0.750		-186.462	0.0	0.0	-13.405	4.072	-168.986	-205.939
1.000		-186.462	0.0	0.0	-13.185	12.751	-160.527	-212.398

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-22.707	0.0	0.0	-9.506	-13.340	0.139	-45.552
0.250		-22.707	0.0	0.0	-0.083	-7.107	-15.517	-29.896
0.500		-22.707	0.0	0.0	9.341	-0.874	-12.492	-32.921
0.750		-22.707	0.0	0.0	18.764	5.359	1.416	-46.829
1.000		-22.707	0.0	0.0	28.187	11.592	17.072	-62.486

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-9.530	0.0	0.0	-1.930	-2.630	-4.970	-14.090
0.250		-9.530	0.0	0.0	2.010	-5.644	-1.876	-17.184
0.500		-9.530	0.0	0.0	5.949	-8.658	5.077	-24.137
0.750		-9.530	0.0	0.0	9.889	-11.672	12.031	-31.091
1.000		-9.530	0.0	0.0	13.828	-14.686	18.984	-38.044

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LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-450,325	0.0	0.0	293,982	168,702	12,359	-913,009
0.250		-450,325	0.0	0.0	223,304	138,183	-88,837	-811,813
0.500		-450,325	0.0	0.0	152,627	107,664	-190,034	-710,616
0.750		-450,325	0.0	0.0	81,949	77,145	-291,231	-609,419
1.000		-450,325	0.0	0.0	11,271	46,627	-392,427	-508,222

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-65,910	0.0	0.0	-191,989	264,854	390,893	-522,714
0.250		-65,910	0.0	0.0	-135,329	172,791	242,210	-374,031
0.500		-65,910	0.0	0.0	-78,709	80,728	93,527	-225,348
0.750		-65,910	0.0	0.0	-22,089	-11,335	-32,487	-99,334
1.000		-65,910	0.0	0.0	34,532	-103,398	72,019	-203,840

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-157,481	0.0	0.0	-8,128	12,356	-136,997	-177,964
0.250		-157,481	0.0	0.0	-1,876	1,746	-153,859	-161,102
0.500		-157,481	0.0	0.0	4,377	-8,864	-144,240	-170,721
0.750		-157,481	0.0	0.0	10,629	-19,473	-127,378	-187,583
1.000		-157,481	0.0	0.0	16,882	-30,083	-110,516	-204,445

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-71,356	0.0	0.0	41,216	12,713	-17,426	-125,285
0.250		-71,356	0.0	0.0	32,005	8,674	-30,677	-112,034
0.500		-71,356	0.0	0.0	22,794	4,634	-43,928	-98,783
0.750		-71,356	0.0	0.0	13,583	0,594	-57,179	-85,533
1.000		-71,356	0.0	0.0	4,372	-3,446	-63,538	-79,173

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-41,188	0.0	0.0	-13,051	19,461	-8,675	-73,701
0.250		-41,188	0.0	0.0	-7,250	10,845	-25,093	-59,283
0.500		-41,188	0.0	0.0	-1,448	2,229	-37,511	-44,865
0.750		-41,188	0.0	0.0	4,354	-6,387	-30,448	-51,929
1.000		-41,188	0.0	0.0	10,155	-15,003	-16,030	-66,346

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LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-459,333	0.0	0.0	46,579	146,801	-265,953	-652,713
0.250		-459,333	0.0	0.0	-37,363	50,572	-371,397	-547,268
0.500		-459,333	0.0	0.0	-121,306	-45,657	-292,370	-626,295
0.750		-459,333	0.0	0.0	-205,248	-141,886	-112,199	-806,467
1.000		-459,333	0.0	0.0	-289,190	-238,115	67,972	-986,638

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-49,550	0.0	0.0	13,713	-3,941	-31,895	-67,204
0.250		-49,550	0.0	0.0	42,665	1,446	-5,439	-93,660
0.500		-49,550	0.0	0.0	71,616	6,832	28,899	-127,998
0.750		-49,550	0.0	0.0	100,568	12,219	63,258	-162,337
1.000		-49,550	0.0	0.0	129,520	17,606	97,576	-196,676

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-158.002	0.0	0.0	17.253	-35.081	-105.669	-210.336
0.250		-158.002	0.0	0.0	11.756	-15.856	-130.391	-185.614
0.500		-158.002	0.0	0.0	6.259	3.369	-148.374	-167.631
0.750		-158.002	0.0	0.0	0.763	22.595	-134.645	-181.360
1.000		-158.002	0.0	0.0	-4.734	41.820	-111.449	-204.556

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-70.731	0.0	0.0	10.471	-1.371	-58.889	-82.574
0.250		-70.731	0.0	0.0	-0.412	-0.348	-69.971	-71.492
0.500		-70.731	0.0	0.0	-11.296	0.675	-58.761	-82.702
0.750		-70.731	0.0	0.0	-22.180	1.697	-46.854	-94.608
1.000		-70.731	0.0	0.0	-33.063	2.720	-34.948	-106.515

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-41.252	0.0	0.0	7.592	-13.471	-20.189	-62.315
0.250		-41.252	0.0	0.0	10.442	-3.490	-27.320	-55.184
0.500		-41.252	0.0	0.0	13.293	6.492	-21.467	-61.036
0.750		-41.252	0.0	0.0	16.143	16.473	-8.636	-73.868
1.000		-41.252	0.0	0.0	18.993	26.455	4.196	-86.700

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LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0	FR	1.883	0.0	0.0	-81.861	13.563	97.307	-93.541
0.250		1.883	0.0	0.0	-56.855	-3.237	61.976	-58.210
0.500		1.883	0.0	0.0	-31.850	-20.038	53.771	-50.005
0.750		1.883	0.0	0.0	-6.845	-36.838	45.566	-41.800
1.000		1.883	0.0	0.0	18.160	-53.639	73.682	-69.916

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	11.628	0.0	0.0	20.090	52.188	83.907	-60.651
0.250		11.628	0.0	0.0	36.574	17.525	65.726	-42.471
0.500		11.628	0.0	0.0	53.057	-17.139	81.824	-58.569
0.750		11.628	0.0	0.0	69.541	-51.803	132.971	-109.716
1.000		11.628	0.0	0.0	86.024	-86.467	184.118	-160.863

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-2.181	0.0	0.0	2.677	-2.139	2.655	-6.997
0.250		-2.181	0.0	0.0	1.080	-0.921	-0.180	-4.182
0.500		-2.181	0.0	0.0	-0.517	0.297	-1.367	-2.995
0.750		-2.181	0.0	0.0	-2.114	1.515	1.448	-5.810
1.000		-2.181	0.0	0.0	-3.711	2.733	4.263	-8.625

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.399	0.0	0.0	-10.287	-2.315	13.001	-12.203
0.250		0.399	0.0	0.0	-8.147	-1.847	10.593	-9.595
0.500		0.399	0.0	0.0	-6.008	-1.378	7.785	-6.987
0.750		0.399	0.0	0.0	-3.868	-0.910	5.177	-4.379
1.000		0.399	0.0	0.0	-1.728	-0.442	2.569	-1.771

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-1.172	0.0	0.0	2.629	1.714	3.171	-5.515
0.250		-1.172	0.0	0.0	3.985	0.606	3.418	-5.763
0.500		-1.172	0.0	0.0	5.340	-0.502	4.670	-7.015
0.750		-1.172	0.0	0.0	6.696	-1.610	7.134	-9.479
1.000		-1.172	0.0	0.0	8.052	-2.719	9.598	-11.943

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LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-12.786	0.0	0.0	84.436	-27.224	98.875	-124.446
0.250		-12.786	0.0	0.0	63.417	-1.217	51.848	-77.420
0.500		-12.786	0.0	0.0	42.398	24.790	54.403	-79.974
0.750		-12.786	0.0	0.0	21.379	50.798	59.391	-84.962
1.000		-12.786	0.0	0.0	0.360	76.805	64.379	-89.951

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.204	0.0	0.0	32.889	-1.517	34.002	-34.410
0.250		-0.204	0.0	0.0	45.438	-3.830	49.064	-49.472
0.500		-0.204	0.0	0.0	57.987	-6.343	64.126	-64.535
0.750		-0.204	0.0	0.0	70.537	-8.856	79.188	-79.597
1.000		-0.204	0.0	0.0	83.086	-11.368	94.251	-94.659

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-1.644	0.0	0.0	3.487	3.976	5.819	-9.107
0.250		-1.644	0.0	0.0	2.614	1.346	2.316	-5.604

0.500	-1.644	0.0	0.0	1.741	-1.284	1.381	-4.669
0.750	-1.644	0.0	0.0	0.868	-3.914	3.138	-6.426
1.000	-1.644	0.0	0.0	-0.005	-6.543	4.904	-8.192

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.444	0.0	0.0	12.118	2.889	14.563	-15.451
0.250		-0.444	0.0	0.0	9.278	2.054	10.888	-11.776
0.500		-0.444	0.0	0.0	6.437	1.220	7.213	-8.101
0.750		-0.444	0.0	0.0	3.597	0.385	3.538	-4.426
1.000		-0.444	0.0	0.0	0.757	-0.450	0.764	-1.651

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	1.049	0.0	0.0	7.973	1.966	10.987	-8.890
0.250		1.049	0.0	0.0	8.742	0.371	10.162	-8.064
0.500		1.049	0.0	0.0	9.512	-1.224	11.784	-9.687
0.750		1.049	0.0	0.0	10.281	-2.819	14.148	-12.051
1.000		1.049	0.0	0.0	11.050	-4.413	16.512	-14.415

MEMBER 73

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-23.021	0.0	0.0	0.057	0.060	-22.904	-23.137
0.250		-23.021	0.0	0.0	0.045	0.060	-22.915	-23.126
0.500		-23.021	0.0	0.0	0.034	0.061	-22.926	-23.116
0.750		-23.021	0.0	0.0	0.023	0.061	-22.937	-23.105
1.000		-23.021	0.0	0.0	0.012	0.062	-22.947	-23.094

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	32.378	0.0	0.0	-0.059	0.026	32.463	32.292
0.250		32.378	0.0	0.0	-0.043	0.026	32.447	32.309
0.500		32.378	0.0	0.0	-0.027	0.025	32.430	32.325
0.750		32.378	0.0	0.0	-0.012	0.024	32.414	32.342
1.000		32.378	0.0	0.0	0.004	0.023	32.406	32.350

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-37.173	0.0	0.0	0.316	-0.016	-36.841	-37.505
0.250		-37.173	0.0	0.0	0.237	-0.012	-36.924	-37.422
0.500		-37.173	0.0	0.0	0.158	-0.009	-37.007	-37.340
0.750		-37.173	0.0	0.0	0.079	-0.005	-37.089	-37.257
1.000		-37.173	0.0	0.0	-0.000	-0.001	-37.171	-37.175

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-12.305	0.0	0.0	0.024	-0.005	-12.277	-12.333
0.250		-12.305	0.0	0.0	0.017	-0.004	-12.283	-12.327
0.500		-12.305	0.0	0.0	0.011	-0.004	-12.289	-12.320
0.750		-12.305	0.0	0.0	0.005	-0.004	-12.296	-12.314
1.000		-12.305	0.0	0.0	-0.001	-0.004	-12.301	-12.309

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-8.971	0.0	0.0	0.017	-0.003	-8.951	-8.991
0.250		-8.971	0.0	0.0	0.013	-0.002	-8.956	-8.986
0.500		-8.971	0.0	0.0	0.008	-0.002	-8.960	-8.982
0.750		-8.971	0.0	0.0	0.004	-0.002	-8.965	-8.977

1.000	-8.971	0.0	0.0	-0.000	-0.002	-8.969	-8.973

MEMBER 74

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	23.021	0.0	0.0	0.0	0.0	23.021	23.021
0.250		23.021	0.0	0.0	0.0	0.0	23.021	23.021
0.500		23.021	0.0	0.0	0.0	0.0	23.021	23.021
0.750		23.021	0.0	0.0	0.0	0.0	23.021	23.021
1.000		23.021	0.0	0.0	0.0	0.0	23.021	23.021

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-32.378	0.0	0.0	0.0	0.0	-32.378	-32.378
0.250		-32.378	0.0	0.0	0.0	0.0	-32.378	-32.378
0.500		-32.378	0.0	0.0	0.0	0.0	-32.378	-32.378
0.750		-32.378	0.0	0.0	0.0	0.0	-32.378	-32.378
1.000		-32.378	0.0	0.0	0.0	0.0	-32.378	-32.378

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	37.095	0.0	0.0	0.0	0.0	37.095	37.095
0.250		37.095	0.0	0.0	0.0	0.0	37.095	37.095
0.500		37.095	0.0	0.0	0.0	0.0	37.095	37.095
0.750		37.095	0.0	0.0	0.0	0.0	37.095	37.095
1.000		37.095	0.0	0.0	0.0	0.0	37.095	37.095

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	12,305	0.0	0.0	0.0	0.0	12,305	12,305
0.250		12,305	0.0	0.0	0.0	0.0	12,305	12,305
0.500		12,305	0.0	0.0	0.0	0.0	12,305	12,305
0.750		12,305	0.0	0.0	0.0	0.0	12,305	12,305
1.000		12,305	0.0	0.0	0.0	0.0	12,305	12,305

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	8,971	0.0	0.0	0.0	0.0	8,971	8,971
0.250		8,971	0.0	0.0	0.0	0.0	8,971	8,971
0.500		8,971	0.0	0.0	0.0	0.0	8,971	8,971
0.750		8,971	0.0	0.0	0.0	0.0	8,971	8,971
1.000		8,971	0.0	0.0	0.0	0.0	8,971	8,971

MEMBER 75

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-107,867	0.0	0.0	-0.214	0.000	-107,652	-108,081
0.250		-107,867	0.0	0.0	-0.161	0.003	-107,703	-108,031
0.500		-107,867	0.0	0.0	-0.108	0.005	-107,753	-107,980
0.750		-107,867	0.0	0.0	-0.055	0.008	-107,804	-107,930
1.000		-107,867	0.0	0.0	-0.002	0.010	-107,855	-107,879

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0	FR	-128.097	0.0	0.0	-0.235	-0.101	-127.761	-128.433
0.250		-128.097	0.0	0.0	-0.172	-0.098	-127.827	-128.368
0.500		-128.097	0.0	0.0	-0.109	-0.095	-127.893	-128.302
0.750		-128.097	0.0	0.0	-0.046	-0.092	-127.959	-128.236
1.000		-128.097	0.0	0.0	0.017	-0.089	-127.992	-128.203

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-6.676	0.0	0.0	-0.258	-0.000	-6.418	-6.935
0.250		-6.676	0.0	0.0	-0.194	0.003	-6.479	-6.873
0.500		-6.676	0.0	0.0	-0.130	0.006	-6.540	-6.812
0.750		-6.676	0.0	0.0	-0.066	0.009	-6.601	-6.751
1.000		-6.676	0.0	0.0	-0.002	0.012	-6.662	-6.690

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-11.257	0.0	0.0	-0.021	-0.005	-11.231	-11.284
0.250		-11.257	0.0	0.0	-0.016	-0.004	-11.237	-11.278
0.500		-11.257	0.0	0.0	-0.010	-0.004	-11.243	-11.272
0.750		-11.257	0.0	0.0	-0.005	-0.004	-11.249	-11.266
1.000		-11.257	0.0	0.0	0.001	-0.004	-11.253	-11.262

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-13.423	0.0	0.0	-0.027	0.001	-13.395	-13.452
0.250		-13.423	0.0	0.0	-0.020	0.002	-13.401	-13.445
0.500		-13.423	0.0	0.0	-0.014	0.002	-13.408	-13.439
0.750		-13.423	0.0	0.0	-0.007	0.002	-13.414	-13.433
1.000		-13.423	0.0	0.0	-0.001	0.003	-13.420	-13.427

MEMBER 76

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	107.868	0.0	0.0	0.0	0.0	107.868	107.868
0.250		107.868	0.0	0.0	0.0	0.0	107.868	107.868
0.500		107.868	0.0	0.0	0.0	0.0	107.868	107.868
0.750		107.868	0.0	0.0	0.0	0.0	107.868	107.868
1.000		107.868	0.0	0.0	0.0	0.0	107.868	107.868

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	128.098	0.0	0.0	0.0	0.0	128.098	128.098
0.250		128.098	0.0	0.0	0.0	0.0	128.098	128.098
0.500		128.098	0.0	0.0	0.0	0.0	128.098	128.098
0.750		128.098	0.0	0.0	0.0	0.0	128.098	128.098
1.000		128.098	0.0	0.0	0.0	0.0	128.098	128.098

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	6.597	0.0	0.0	0.0	0.0	6.597	6.597
0.250		6.597	0.0	0.0	0.0	0.0	6.597	6.597
0.500		6.597	0.0	0.0	0.0	0.0	6.597	6.597
0.750		6.597	0.0	0.0	0.0	0.0	6.597	6.597
1.000		6.597	0.0	0.0	0.0	0.0	6.597	6.597

LOADING 8 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	11.258	0.0	0.0	0.0	0.0	11.258	11.258

0.250	11.258	0.0	0.0	0.0	0.0	11.258	11.258
0.500	11.258	0.0	0.0	0.0	0.0	11.258	11.258
0.750	11.258	0.0	0.0	0.0	0.0	11.258	11.258
1.000	11.258	0.0	0.0	0.0	0.0	11.258	11.258

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	13.423	0.0	0.0	0.0	0.0	13.423	13.423
0.250		13.423	0.0	0.0	0.0	0.0	13.423	13.423
0.500		13.423	0.0	0.0	0.0	0.0	13.423	13.423
0.750		13.423	0.0	0.0	0.0	0.0	13.423	13.423
1.000		13.423	0.0	0.0	0.0	0.0	13.423	13.423

MEMBER 77

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	116.213	0.0	0.0	-0.056	-0.115	116.384	116.042
0.250		116.213	0.0	0.0	-0.056	-0.086	116.355	116.070
0.500		116.213	0.0	0.0	-0.056	-0.057	116.326	116.099
0.750		116.213	0.0	0.0	-0.056	-0.029	116.298	116.128
1.000		116.213	0.0	0.0	-0.056	-0.000	116.269	116.156

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	29.559	0.0	0.0	0.125	-0.029	29.713	29.405
0.250		29.559	0.0	0.0	0.125	-0.022	29.706	29.412
0.500		29.559	0.0	0.0	0.125	-0.015	29.699	29.419
0.750		29.559	0.0	0.0	0.125	-0.007	29.692	29.426
1.000		29.559	0.0	0.0	0.125	-0.000	29.684	29.434

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-39.738	0.0	0.0	-0.001	0.161	-39.576	-39.899
0.250		-39.738	0.0	0.0	-0.001	0.121	-39.616	-39.859
0.500		-39.738	0.0	0.0	-0.001	0.080	-39.656	-39.819
0.750		-39.738	0.0	0.0	-0.001	0.040	-39.697	-39.779
1.000		-39.738	0.0	0.0	-0.001	0.000	-39.737	-39.739

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-6.711	0.0	0.0	-0.002	0.007	-6.703	-6.720
0.250		-6.711	0.0	0.0	-0.002	0.005	-6.704	-6.718
0.500		-6.711	0.0	0.0	-0.002	0.003	-6.706	-6.716
0.750		-6.711	0.0	0.0	-0.002	0.002	-6.708	-6.715
1.000		-6.711	0.0	0.0	-0.002	-0.000	-6.709	-6.713

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-9.600	0.0	0.0	-0.011	0.009	-9.580	-9.620
0.250		-9.600	0.0	0.0	-0.011	0.007	-9.582	-9.618
0.500		-9.600	0.0	0.0	-0.011	0.005	-9.585	-9.615
0.750		-9.600	0.0	0.0	-0.011	0.002	-9.587	-9.613
1.000		-9.600	0.0	0.0	-0.011	-0.000	-9.590	-9.611

MEMBER 78

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-116,214	0.0	0.0	0.0	0.0	-116,214	-116,214
0.250		-116,214	0.0	0.0	0.0	0.0	-116,214	-116,214
0.500		-116,214	0.0	0.0	0.0	0.0	-116,214	-116,214
0.750		-116,214	0.0	0.0	0.0	0.0	-116,214	-116,214
1.000		-116,214	0.0	0.0	0.0	0.0	-116,214	-116,214

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-29,559	0.0	0.0	0.0	0.0	-29,559	-29,559
0.250		-29,559	0.0	0.0	0.0	0.0	-29,559	-29,559
0.500		-29,559	0.0	0.0	0.0	0.0	-29,559	-29,559
0.750		-29,559	0.0	0.0	0.0	0.0	-29,559	-29,559
1.000		-29,559	0.0	0.0	0.0	0.0	-29,559	-29,559

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	39,659	0.0	0.0	0.0	0.0	39,659	39,659
0.250		39,659	0.0	0.0	0.0	0.0	39,659	39,659
0.500		39,659	0.0	0.0	0.0	0.0	39,659	39,659
0.750		39,659	0.0	0.0	0.0	0.0	39,659	39,659
1.000		39,659	0.0	0.0	0.0	0.0	39,659	39,659

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	6,711	0.0	0.0	0.0	0.0	6,711	6,711
0.250		6,711	0.0	0.0	0.0	0.0	6,711	6,711
0.500		6,711	0.0	0.0	0.0	0.0	6,711	6,711
0.750		6,711	0.0	0.0	0.0	0.0	6,711	6,711
1.000		6,711	0.0	0.0	0.0	0.0	6,711	6,711

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	9,600	0.0	0.0	0.0	0.0	9,600	9,600
0.250		9,600	0.0	0.0	0.0	0.0	9,600	9,600
0.500		9,600	0.0	0.0	0.0	0.0	9,600	9,600
0.750		9,600	0.0	0.0	0.0	0.0	9,600	9,600
1.000		9,600	0.0	0.0	0.0	0.0	9,600	9,600

MEMBER 79

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-12,997	0.0	0.0	-981,802	55,672	1024,477	-1050,472
0.250		-12,997	0.0	0.0	-604,516	43,352	634,870	-660,865
0.500		-12,997	0.0	0.0	-227,230	31,031	245,264	-271,258
0.750		-12,997	0.0	0.0	150,057	18,711	155,771	-181,765
1.000		-12,997	0.0	0.0	527,343	6,391	520,736	-546,731

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	19,164	0.0	0.0	1382,725	39,227	1441,116	-1402,788
0.250		19,164	0.0	0.0	845,463	31,501	896,128	-857,800
0.500		19,164	0.0	0.0	308,202	23,775	351,141	-312,813
0.750		19,164	0.0	0.0	-229,060	16,049	264,275	-225,944
1.000		19,164	0.0	0.0	-766,322	8,323	793,809	-755,480

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	7.088	0.0	0.0	736.972	0.553	744.613	-730.437
0.250		7.088	0.0	0.0	467.289	0.420	474.797	-460.620
0.500		7.088	0.0	0.0	197.606	0.287	204.981	-190.804
0.750		7.088	0.0	0.0	-72.078	0.154	79.319	-65.145
1.000		7.088	0.0	0.0	-341.761	0.021	348.870	-334.693

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.287	0.0	0.0	32.340	-1.830	34.458	-33.883
0.250		0.287	0.0	0.0	24.551	-1.504	26.142	-25.568
0.500		0.287	0.0	0.0	16.362	-1.177	17.827	-17.253
0.750		0.287	0.0	0.0	8.374	-0.851	9.511	-8.937
1.000		0.287	0.0	0.0	0.385	-0.524	1.196	-0.622

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.231	0.0	0.0	22.099	-0.835	23.165	-22.703
0.250		0.231	0.0	0.0	13.171	-0.635	14.036	-13.574
0.500		0.231	0.0	0.0	4.242	-0.434	4.907	-4.445
0.750		0.231	0.0	0.0	-4.686	-0.233	5.151	-4.688
1.000		0.231	0.0	0.0	-13.614	-0.033	13.878	-13.416

MEMBER 80

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-12.546	0.0	0.0	750.631	32.721	770.806	-795.898
0.250		-12.546	0.0	0.0	459.613	13.576	460.643	-485.736

0,500	-12,546	0,0	0,0	168,596	-5,568	161,618	-186,710
0,750	-12,546	0,0	0,0	-122,422	-24,713	134,589	-159,681
1,000	-12,546	0,0	0,0	-413,440	-43,857	444,751	-469,844

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	-21,026	0,0	0,0	1485,455	-12,596	1477,025	-1519,077
0,250		-21,026	0,0	0,0	909,179	-11,544	899,496	-941,549
0,500		-21,026	0,0	0,0	332,903	-10,091	321,968	-364,020
0,750		-21,026	0,0	0,0	-243,374	-8,839	231,186	-273,238
1,000		-21,026	0,0	0,0	-819,650	-7,586	806,210	-848,262

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	7,140	0,0	0,0	-744,708	5,297	757,145	-742,865
0,250		7,140	0,0	0,0	-473,275	4,505	484,920	-470,640
0,500		7,140	0,0	0,0	-201,843	3,713	212,697	-198,416
0,750		7,140	0,0	0,0	69,589	2,922	79,651	-65,370
1,000		7,140	0,0	0,0	341,022	2,130	350,291	-336,011

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	0,496	0,0	0,0	-55,519	-0,348	56,362	-55,371
0,250		0,496	0,0	0,0	-39,342	-0,293	40,131	-39,139
0,500		0,496	0,0	0,0	-23,166	-0,238	23,899	-22,908
0,750		0,496	0,0	0,0	-6,989	-0,183	7,668	-6,676
1,000		0,496	0,0	0,0	9,187	-0,128	9,810	-8,819

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

0.0	FR	0.455	0.0	0.0	-49.400	2.015	51.869	-50.959
0.250		0.455	0.0	0.0	-36.869	1.661	38.986	-38.075
0.500		0.455	0.0	0.0	-24.339	1.308	26.102	-25.192
0.750		0.455	0.0	0.0	-11.808	0.955	13.218	-12.308
1.000		0.455	0.0	0.0	0.722	0.602	1.779	-0.869

MEMBER 81

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	26.810	0.0	0.0	1827.655	4.282	1858.746	-1805.127
0.250		26.810	0.0	0.0	1120.990	11.031	1158.830	-1105.211
0.500		26.810	0.0	0.0	414.324	17.780	458.914	-405.294
0.750		26.810	0.0	0.0	-292.341	24.529	345.679	-290.060
1.000		26.810	0.0	0.0	-999.006	31.278	1057.094	-1003.475

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	3.186	0.0	0.0	217.927	-35.077	256.191	-249.818
0.250		3.186	0.0	0.0	137.554	-18.117	158.857	-152.485
0.500		3.186	0.0	0.0	57.180	-1.157	61.524	-55.151
0.750		3.186	0.0	0.0	-23.194	15.803	42.183	-35.810
1.000		3.186	0.0	0.0	-103.567	32.763	139.517	-133.144

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	7.072	0.0	0.0	723.199	-2.520	732.592	-718.447
0.250		7.072	0.0	0.0	458.637	-2.023	467.732	-453.587
0.500		7.072	0.0	0.0	194.074	-1.726	202.873	-188.728
0.750		7.072	0.0	0.0	-70.488	-1.429	78.990	-64.845

1.000	7.072	0.0	0.0	-335.051	-1.131	343.255	-329.110

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0.320	0.0	0.0	25.639	-0.510	26.470	-25.829
0.250		0.320	0.0	0.0	14.733	-0.280	15.335	-14.693
0.500		0.320	0.0	0.0	3.827	-0.050	4.197	-3.557
0.750		0.320	0.0	0.0	-7.079	0.181	7.579	-6.939
1.000		0.320	0.0	0.0	-17.985	0.411	18.716	-18.076

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0.457	0.0	0.0	43.134	0.580	44.171	-43.257
0.250		0.457	0.0	0.0	29.054	0.391	29.902	-28.988
0.500		0.457	0.0	0.0	14.974	0.202	15.633	-14.719
0.750		0.457	0.0	0.0	0.894	0.013	1.365	-0.451
1.000		0.457	0.0	0.0	-13.185	-0.176	13.818	-12.904

MEMBER 82

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-86.712	0.0	0.0	219.896	130.291	263.474	-436.899
0.250		-86.712	0.0	0.0	138.061	79.227	130.575	-304.000
0.500		-86.712	0.0	0.0	56.225	28.163	-2.325	-171.100
0.750		-86.712	0.0	0.0	-25.610	-22.902	-38.201	-135.224
1.000		-86.712	0.0	0.0	-107.445	-73.966	94.699	-268.124

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	123,480	0.0	0.0	-324,202	-181,297	628,979	-382,019
0.250		123,480	0.0	0.0	-203,545	-115,534	442,559	-195,599
0.500		123,480	0.0	0.0	-82,889	-49,770	256,138	-9,179
0.750		123,480	0.0	0.0	37,768	15,994	177,242	69,716
1.000		123,480	0.0	0.0	158,425	81,757	363,662	-116,702

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	27,740	0.0	0.0	-143,614	-82,533	253,888	-198,407
0.250		27,740	0.0	0.0	-88,975	-51,337	168,053	-112,572
0.500		27,740	0.0	0.0	-34,337	-20,141	82,218	-26,737
0.750		27,740	0.0	0.0	20,302	11,055	59,098	-3,617
1.000		27,740	0.0	0.0	74,941	42,251	144,933	-89,452

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	1,836	0.0	0.0	-1,839	3,547	7,222	-3,550
0.250		1,836	0.0	0.0	-0,111	5,648	7,595	-3,922
0.500		1,836	0.0	0.0	1,617	7,749	11,202	-7,530
0.750		1,836	0.0	0.0	3,345	9,849	15,031	-11,359
1.000		1,836	0.0	0.0	5,073	11,950	18,860	-15,188

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	2,052	0.0	0.0	-6,704	-1,590	10,346	-6,242
0.250		2,052	0.0	0.0	-5,222	-0,057	7,331	-3,227
0.500		2,052	0.0	0.0	-3,740	1,477	7,269	-3,165
0.750		2,052	0.0	0.0	-2,258	3,011	7,321	-3,217
1.000		2,052	0.0	0.0	-0,776	4,545	7,373	-3,269

AD-A165 616 NATURAL FREQUENCY AND EARTHQUAKE ANALYSIS EAST COAST 5/9
AIR COMBAT MANEUVERI..(U) CREST ENGINEERING INC TULSA
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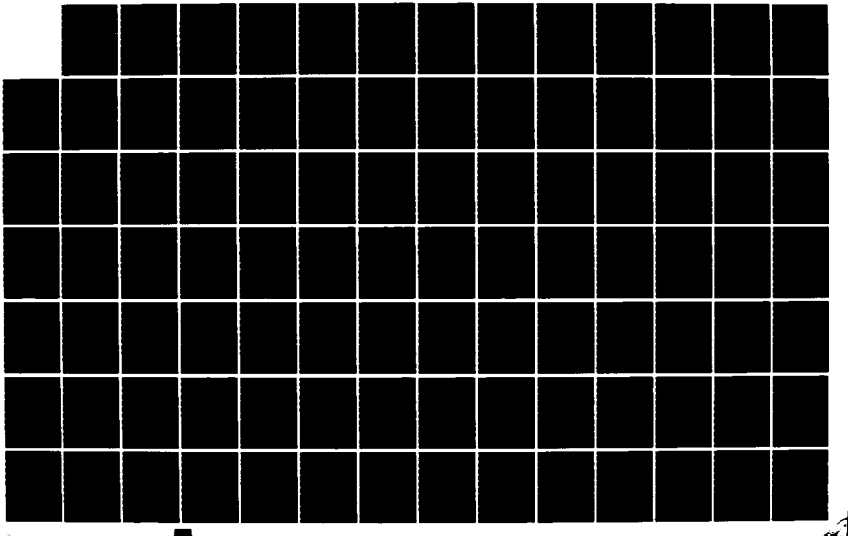

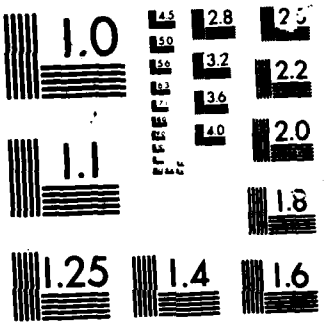

MICROCOPY RESOLUTION TEST CHART

MEMBER 83

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-66,885	0.0	0.0	-168,489	108,902	210,505	-344,276
0.250		-66,885	0.0	0.0	-100,087	42,632	75,834	-209,605
0.500		-66,885	0.0	0.0	-31,686	-23,638	-11,561	-122,209
0.750		-66,885	0.0	0.0	36,715	-89,908	59,758	-195,508
1.000		-66,885	0.0	0.0	105,116	-156,178	194,409	-328,179

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-132,447	0.0	0.0	-341,930	202,259	411,742	-676,635
0.250		-132,447	0.0	0.0	-216,428	111,883	195,864	-460,758
0.500		-132,447	0.0	0.0	-90,926	21,507	-20,013	-244,880
0.750		-132,447	0.0	0.0	34,577	-68,868	-29,002	-235,891
1.000		-132,447	0.0	0.0	160,079	-159,244	186,876	-451,769

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	28,142	0.0	0.0	143,712	-81,650	253,504	-197,219
0.250		28,142	0.0	0.0	87,710	-51,884	167,736	-111,451
0.500		28,142	0.0	0.0	31,707	-22,117	81,967	-25,683
0.750		28,142	0.0	0.0	-24,295	7,649	60,086	-3,801
1.000		28,142	0.0	0.0	-80,297	37,415	145,854	-89,570

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	3,718	0.0	0.0	5,903	1,308	10,928	-3,493
0.250		3,718	0.0	0.0	2,176	3,651	9,545	-2,109
0.500		3,718	0.0	0.0	-1,552	5,995	11,265	-3,829
0.750		3,718	0.0	0.0	-5,279	8,359	17,335	-9,900
1.000		3,718	0.0	0.0	-9,006	10,683	23,406	-15,971

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE / STRESS /

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	2,880	0.0	0.0	-1,238	-2,837	6,955	-1,195
0.250		2,880	0.0	0.0	-5,251	-1,703	9,834	-4,074
0.500		2,880	0.0	0.0	-9,263	-0,569	12,712	-6,952
0.750		2,880	0.0	0.0	-13,275	0,565	16,720	-10,960
1.000		2,880	0.0	0.0	-17,287	1,699	21,866	-16,106

MEMBER 84

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE / STRESS /

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	162,035	0.0	0.0	-4,795	484,183	651,013	-326,942
0.250		162,035	0.0	0.0	14,831	284,045	460,912	-136,841
0.500		162,035	0.0	0.0	34,457	83,908	280,401	43,670
0.750		162,035	0.0	0.0	54,083	-116,229	332,348	-8,277
1.000		162,035	0.0	0.0	73,710	-316,367	552,111	-228,041

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE / STRESS /

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	18,429	0.0	0.0	-7,463	50,195	76,088	-39,229

0.250	18.429	0.0	0.0	8.026	21.912	48.368	-7.509
0.500	18.429	0.0	0.0	15.516	-6.372	40.317	-3.458
0.750	18.429	0.0	0.0	27.005	-34.655	80.090	-43.231
1.000	18.429	0.0	0.0	38.495	-62.959	119.863	-83.004

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	26.413	0.0	0.0	-0.189	162.587	188.990	-136.163
0.250		26.413	0.0	0.0	0.675	99.611	126.699	-73.873
0.500		26.413	0.0	0.0	1.540	36.635	64.787	-11.961
0.750		26.413	0.0	0.0	2.404	-25.941	54.759	-1.932
1.000		26.413	0.0	0.0	3.268	-88.718	118.399	-65.575

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	2.501	0.0	0.0	-0.224	8.717	11.442	-6.440
0.250		2.501	0.0	0.0	0.446	5.876	8.822	-3.821
0.500		2.501	0.0	0.0	1.115	3.035	6.651	-1.650
0.750		2.501	0.0	0.0	1.785	0.194	4.480	0.521
1.000		2.501	0.0	0.0	2.455	-2.646	7.602	-2.601

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	3.228	0.0	0.0	-5.235	6.390	14.854	-8.397
0.250		3.228	0.0	0.0	-5.784	2.334	11.347	-4.890
0.500		3.228	0.0	0.0	-6.333	-1.722	11.284	-4.827
0.750		3.228	0.0	0.0	-6.882	-5.778	15.889	-9.432
1.000		3.228	0.0	0.0	-7.432	-9.834	20.494	-14.038

MEMBER 85

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.562	0.0	0.0	-98.409	-226.174	318.021	-331.145
0.250		-0.562	0.0	0.0	-58.458	-188.935	240.829	-253.953
0.500		-0.562	0.0	0.0	-18.507	-151.692	163.637	-176.761
0.750		-0.562	0.0	0.0	21.444	-114.451	129.553	-142.457
1.000		-0.562	0.0	0.0	61.395	-77.211	132.043	-145.167

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.711	0.0	0.0	158.376	247.447	406.534	-405.112
0.250		0.711	0.0	0.0	96.984	173.415	271.110	-269.688
0.500		0.711	0.0	0.0	35.592	99.382	135.685	-134.265
0.750		0.711	0.0	0.0	-25.800	25.350	51.861	-50.439
1.000		0.711	0.0	0.0	-87.192	-48.683	136.586	-135.164

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	22.575	0.0	0.0	1105.444	102.819	1230.838	-1185.687
0.250		22.575	0.0	0.0	658.508	59.243	740.327	-695.176
0.500		22.575	0.0	0.0	211.573	15.668	249.816	-204.665
0.750		22.575	0.0	0.0	-235.363	-27.907	285.845	-240.695
1.000		22.575	0.0	0.0	-682.299	-71.483	776.357	-731.206

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.009	0.0	0.0	17.874	-16.859	34.724	-34.742
0.250		-0.009	0.0	0.0	13.318	-12.748	26.057	-26.076
0.500		-0.009	0.0	0.0	8.761	-8.638	17.390	-17.409

0.750	-0.009	0.0	0.0	4.205	-4.528	8.724	-8.742
1.000	-0.009	0.0	0.0	-0.351	-0.418	0.760	-0.779

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	0.077	0.0	0.0	9.460	15.559	25.096	-24.942
0.250	0.077	0.0	0.0	6.228	10.956	17.261	-17.108
0.500	0.077	0.0	0.0	2.997	6.354	9.427	-9.274
0.750	0.077	0.0	0.0	-0.235	1.751	2.063	-1.910
1.000	0.077	0.0	0.0	-3.467	-2.851	6.395	-6.242

MEMBER 86

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-6.147	0.0	0.0	-199.475	227.290	420.617	-432.912
0.250	-6.147	0.0	0.0	-130.341	179.650	303.844	-316.138
0.500	-6.147	0.0	0.0	-61.208	132.010	187.071	-199.365
0.750	-6.147	0.0	0.0	7.926	84.370	86.148	-98.445
1.000	-6.147	0.0	0.0	77.059	36.730	107.642	-119.936

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-0.588	0.0	0.0	-269.809	-81.093	350.313	-351.490
0.250	-0.588	0.0	0.0	-178.105	-66.455	243.972	-245.148
0.500	-0.588	0.0	0.0	-86.401	-51.818	137.631	-138.807
0.750	-0.588	0.0	0.0	5.303	-37.180	41.895	-43.071
1.000	-0.588	0.0	0.0	97.007	-22.542	118.961	-120.137

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	22.371	0.0	0.0	1095.205	-115.434	1231.010	-1186.268
0.250		22.371	0.0	0.0	651.691	-66.171	740.232	-695.490
0.500		22.371	0.0	0.0	208.177	-18.907	249.455	-204.712
0.750		22.371	0.0	0.0	-235.357	28.357	286.066	-241.323
1.000		22.371	0.0	0.0	-678.852	75.621	776.844	-732.102

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.060	0.0	0.0	15.384	13.701	29.026	-29.145
0.250		-0.060	0.0	0.0	11.573	10.593	22.106	-22.226
0.500		-0.060	0.0	0.0	7.762	7.485	15.187	-15.306
0.750		-0.060	0.0	0.0	3.951	4.376	8.267	-8.387
1.000		-0.060	0.0	0.0	0.140	1.268	1.348	-1.467

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.033	0.0	0.0	-8.285	-28.723	36.975	-37.041
0.250		-0.033	0.0	0.0	-5.583	-20.660	26.209	-26.275
0.500		-0.033	0.0	0.0	-2.880	-12.596	15.443	-15.509
0.750		-0.033	0.0	0.0	-0.177	-4.533	4.677	-4.744
1.000		-0.033	0.0	0.0	2.526	3.530	6.022	-6.089

MEMBER 87

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-4.129	0.0	0.0	122.583	-238.702	357.157	-365.414
0.250		-4.129	0.0	0.0	90.488	-202.524	288.884	-297.141
0.500		-4.129	0.0	0.0	58.393	-166.347	220.610	-228.868
0.750		-4.129	0.0	0.0	26.297	-130.169	152.337	-160.595
1.000		-4.129	0.0	0.0	-5.798	-93.991	95.661	-103.919

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-1.538	0.0	0.0	-127.322	291.494	417.279	-420.354
0.250		-1.538	0.0	0.0	-92.104	205.834	296.400	-299.475
0.500		-1.538	0.0	0.0	-56.886	120.173	175.521	-178.596
0.750		-1.538	0.0	0.0	-21.667	34.513	54.643	-57.718
1.000		-1.538	0.0	0.0	13.551	-51.148	63.161	-66.236

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-22.570	0.0	0.0	1347.211	217.759	1542.400	-1587.539
0.250		-22.570	0.0	0.0	828.400	129.755	935.585	-980.725
0.500		-22.570	0.0	0.0	309.590	41.751	328.771	-373.910
0.750		-22.570	0.0	0.0	-209.221	-46.253	232.904	-278.043
1.000		-22.570	0.0	0.0	-728.031	-134.257	839.718	-884.857

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.007	0.0	0.0	-11.905	-25.448	37.360	-37.346
0.250		0.007	0.0	0.0	-8.476	-18.792	27.275	-27.260
0.500		0.007	0.0	0.0	-5.047	-12.135	17.189	-17.175
0.750		0.007	0.0	0.0	-1.618	-5.478	7.104	-7.090
1.000		0.007	0.0	0.0	1.810	1.178	2.996	-2.981

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.102	0.0	0.0	-5.313	12.173	17.384	-17.588
0.250		-0.102	0.0	0.0	-4.152	8.730	12.780	-12.985
0.500		-0.102	0.0	0.0	-2.990	5.288	8.176	-8.381
0.750		-0.102	0.0	0.0	-1.829	1.846	3.573	-3.777
1.000		-0.102	0.0	0.0	-0.667	-1.596	2.162	-2.366

MEMBER 88

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-3.603	0.0	0.0	233.422	161.197	391.015	-398.222
0.250		-3.603	0.0	0.0	174.613	133.685	304.695	-311.902
0.500		-3.603	0.0	0.0	115.805	106.173	218.375	-225.582
0.750		-3.603	0.0	0.0	56.997	78.662	132.055	-139.262
1.000		-3.603	0.0	0.0	-1.811	51.150	49.358	-56.565

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	1.414	0.0	0.0	210.834	-49.500	261.748	-258.919
0.250		1.414	0.0	0.0	150.355	-47.727	199.497	-196.668
0.500		1.414	0.0	0.0	89.877	-45.954	137.245	-134.417
0.750		1.414	0.0	0.0	29.399	-44.181	74.994	-72.165
1.000		1.414	0.0	0.0	-31.079	-42.407	74.901	-72.072

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0	FR	-22,377	0.0	0.0	1349,352	-210,398	1537,373	-1582,126
0.250		-22,377	0.0	0.0	830,436	-125,468	933,527	-978,281
0.500		-22,377	0.0	0.0	311,521	-40,538	329,681	-374,435
0.750		-22,377	0.0	0.0	-207,395	44,393	229,411	-274,164
1.000		-22,377	0.0	0.0	-726,311	129,323	833,257	-878,010

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0,062	0.0	0.0	-11,462	27,118	38,641	-38,518
0.250		0,062	0.0	0.0	-7,917	19,626	27,605	-27,482
0.500		0,062	0.0	0.0	-4,373	12,135	16,570	-16,447
0.750		0,062	0.0	0.0	-0,829	4,643	5,534	-5,411
1.000		0,062	0.0	0.0	2,715	-2,848	5,625	-5,502

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0,059	0.0	0.0	1,774	-7,048	8,882	-8,764
0.250		0,059	0.0	0.0	1,054	-6,490	7,603	-7,485
0.500		0,059	0.0	0.0	0,333	-5,932	6,324	-6,206
0.750		0,059	0.0	0.0	-0,387	-5,373	5,819	-5,702
1.000		0,059	0.0	0.0	-1,108	-4,815	5,981	-5,864

MEMBER 89

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	9,078	0.0	0.0	12,179	228,857	250,094	-231,938
0.250		9,078	0.0	0.0	6,305	112,801	128,183	-110,028
0.500		9,078	0.0	0.0	0,430	-3,255	12,744	5,412
0.750		9,078	0.0	0.0	-5,444	-119,272	133,795	-115,638

1.000		9,078	0.0	0.0	-11,318	-235,308	255,704	-237,548

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-13,013	0.0	0.0	-149,317	114,164	250,468	-276,494
0.250		-13,013	0.0	0.0	-78,742	90,748	156,477	-182,504
0.500		-13,013	0.0	0.0	-8,167	67,333	62,487	-88,513
0.750		-13,013	0.0	0.0	62,408	45,917	93,312	-119,338
1.000		-13,013	0.0	0.0	132,983	20,502	140,471	-166,498

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-68,012	0.0	0.0	-2745,987	-48,988	2726,962	-2862,986
0.250		-68,012	0.0	0.0	-1323,227	-23,434	1278,649	-1414,673
0.500		-68,012	0.0	0.0	99,533	2,119	33,640	-169,664
0.750		-68,012	0.0	0.0	1522,293	27,672	1481,953	-1617,977
1.000		-68,012	0.0	0.0	2945,054	53,225	2930,267	-3066,291

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	1,147	0.0	0.0	-2,626	-1,241	5,013	-2,720
0.250		1,147	0.0	0.0	-1,260	-1,035	3,442	-1,149
0.500		1,147	0.0	0.0	0,106	-0,830	2,085	0,211
0.750		1,147	0.0	0.0	1,472	-0,624	3,243	-0,950
1.000		1,147	0.0	0.0	2,838	-0,419	4,404	-2,111

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-1,442	0.0	0.0	-14,622	5,725	16,905	-19,789
0.250		-1,442	0.0	0.0	-7,758	3,519	9,835	-12,719

0.500	-1.442	0.0	0.0	-0.894	3.313	2.765	-5.649
0.750	-1.442	0.0	0.0	5.970	3.107	7.636	-10.520
1.000	-1.442	0.0	0.0	12.835	2.902	14.294	-17.178

MEMBER 90

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						
0.0 FR	9.600	0.0	0.0	10.438	-224.094	244.132	-224.932
0.250	9.600	0.0	0.0	4.655	-140.170	154.425	-135.225
0.500	9.600	0.0	0.0	-1.128	-56.246	66.974	-47.773
0.750	9.600	0.0	0.0	-6.911	27.678	44.189	-24.989
1.000	9.600	0.0	0.0	-12.694	111.602	133.896	-114.696

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						
0.0 FR	-12.003	0.0	0.0	-132.633	21.350	141.980	-165.986
0.250	-12.003	0.0	0.0	-61.744	-0.205	49.945	-73.951
0.500	-12.003	0.0	0.0	9.146	-21.760	18.902	-42.908
0.750	-12.003	0.0	0.0	80.035	-43.315	111.546	-135.352
1.000	-12.003	0.0	0.0	150.924	-64.870	203.790	-227.796

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						
0.0 FR	-68.588	0.0	0.0	2921.996	47.856	2901.264	-3038.480
0.250	-68.588	0.0	0.0	1511.537	26.046	1468.994	-1606.171
0.500	-68.588	0.0	0.0	101.078	4.236	36.726	-175.902
0.750	-68.588	0.0	0.0	-1309.380	-17.575	1258.366	-1395.543
1.000	-68.588	0.0	0.0	-2719.840	-39.385	2690.636	-2827.813

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0.992	0.0	0.0	-3.355	-1.806	6.154	-4.169
0.250		0.992	0.0	0.0	-1.405	-1.227	3.624	-1.640
0.500		0.992	0.0	0.0	0.546	-0.648	2.186	-0.202
0.750		0.992	0.0	0.0	2.496	-0.069	3.558	-1.574
1.000		0.992	0.0	0.0	4.447	0.510	5.949	-3.965

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-2.079	0.0	0.0	-13.372	0.640	11.935	-16.091
0.250		-2.079	0.0	0.0	-5.747	1.077	4.744	-8.902
0.500		-2.079	0.0	0.0	1.879	1.513	1.313	-5.471
0.750		-2.079	0.0	0.0	9.504	1.950	9.374	-13.532
1.000		-2.079	0.0	0.0	17.129	2.386	17.436	-21.594

MEMBER 91

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	12.129	0.0	0.0	7.085	212.411	231.625	-207.367
0.250		12.129	0.0	0.0	3.134	106.901	122.163	-97.906
0.500		12.129	0.0	0.0	-0.817	1.391	14.337	9.920
0.750		12.129	0.0	0.0	-4.769	-104.119	121.016	-96.759
1.000		12.129	0.0	0.0	-8.720	-209.629	230.477	-206.220

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-19,922	0.0	0.0	-126,710	105,770	212,558	-252,402
0.250		-19,922	0.0	0.0	-65,607	84,598	130,283	-170,127
0.500		-19,922	0.0	0.0	-4,503	63,426	48,008	-87,851
0.750		-19,922	0.0	0.0	56,600	42,254	78,933	-118,776
1.000		-19,922	0.0	0.0	117,703	21,083	118,864	-158,708

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	28,788	0.0	0.0	-2329,105	64,632	2422,525	-2364,950
0.250		28,788	0.0	0.0	-1134,945	36,641	1200,374	-1142,798
0.500		28,788	0.0	0.0	59,215	8,650	96,652	-39,077
0.750		28,788	0.0	0.0	1253,375	-19,342	1301,504	-1243,928
1.000		28,788	0.0	0.0	2447,535	-47,333	2523,655	-2466,080

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	2,034	0.0	0.0	-3,598	-0,357	5,970	-1,901
0.250		2,034	0.0	0.0	-1,894	-0,677	4,605	-0,536
0.500		2,034	0.0	0.0	-0,189	-1,017	3,241	0,828
0.750		2,034	0.0	0.0	1,515	-1,357	4,907	-0,838
1.000		2,034	0.0	0.0	3,220	-1,697	6,951	-2,885

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0,854	0.0	0.0	-11,603	5,435	16,184	-17,892
0.250		-0,854	0.0	0.0	-5,824	4,204	9,174	-10,882
0.500		-0,854	0.0	0.0	-0,044	2,973	2,163	-3,071
0.750		-0,854	0.0	0.0	5,735	1,742	6,623	-8,331
1.000		-0,854	0.0	0.0	11,514	0,511	11,171	-12,879

MEMBER 92

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	11,606	0.0	0.0	8,670	-220,843	241,120	-217,907
0.250		11,606	0.0	0.0	4,618	-133,360	149,584	-126,372
0.500		11,606	0.0	0.0	0,565	-45,877	58,049	-34,836
0.750		11,606	0.0	0.0	-3,487	41,605	56,699	-33,487
1.000		11,606	0.0	0.0	-7,540	129,088	148,235	-125,022

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-5,963	0.0	0.0	-116,522	20,234	130,794	-142,720
0.250		-5,963	0.0	0.0	-55,767	-2,999	52,803	-64,729
0.500		-5,963	0.0	0.0	4,988	-26,232	25,258	-37,184
0.750		-5,963	0.0	0.0	65,744	-49,466	109,246	-121,173
1.000		-5,963	0.0	0.0	126,499	-72,699	193,235	-205,162

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	29,364	0.0	0.0	2427,389	-41,964	2498,717	-2439,989
0.250		29,364	0.0	0.0	1243,594	-17,474	1290,431	-1231,703
0.500		29,364	0.0	0.0	59,798	7,017	96,179	-37,450
0.750		29,364	0.0	0.0	-1123,998	31,507	1184,868	-1126,140
1.000		29,364	0.0	0.0	-2307,794	55,997	2393,154	-2334,426

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

0.0	FR	2.189	0.0	0.0	-2.160	-0.310	4.659	-0.281
0.250		2.189	0.0	0.0	-1.103	-1.064	4.356	0.022
0.500		2.189	0.0	0.0	-0.046	-1.818	4.053	0.325
0.750		2.189	0.0	0.0	1.011	-2.571	5.771	-1.393
1.000		2.189	0.0	0.0	2.068	-3.325	7.582	-3.204

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.217	0.0	0.0	-9.991	2.772	12.546	-12.981
0.250		-0.217	0.0	0.0	-5.055	0.829	5.667	-6.102
0.500		-0.217	0.0	0.0	-0.119	-1.114	1.016	-1.450
0.750		-0.217	0.0	0.0	4.817	-3.057	7.657	-8.091
1.000		-0.217	0.0	0.0	9.753	-5.000	14.536	-14.970

MEMBER 93

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-4.987	0.0	0.0	-10.340	60.432	65.785	-75.758
0.250		-4.987	0.0	0.0	-4.509	46.492	46.014	-55.987
0.500		-4.987	0.0	0.0	1.322	32.551	28.886	-38.859
0.750		-4.987	0.0	0.0	7.152	18.611	20.777	-30.750
1.000		-4.987	0.0	0.0	12.983	4.670	12.667	-22.640

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	6.361	0.0	0.0	39.429	-81.941	127.731	-115.008
0.250		6.361	0.0	0.0	20.253	-63.489	90.103	-77.381
0.500		6.361	0.0	0.0	1.078	-45.038	52.476	-39.754

0.750	6.361	0.0	0.0	-16.098	-26.586	51.045	-38.323
1.000	6.361	0.0	0.0	-37.274	-8.135	51.769	-39.047

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-18.474	0.0	0.0	850.390	-675.950	1507.866	-1544.813
0.250		-18.474	0.0	0.0	453.404	-326.616	761.546	-798.493
0.500		-18.474	0.0	0.0	56.417	22.718	60.661	-97.608
0.750		-18.474	0.0	0.0	-340.570	372.052	694.148	-731.095
1.000		-18.474	0.0	0.0	-737.557	721.386	1440.469	-1477.416

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.554	0.0	0.0	2.188	-0.750	3.472	-2.363
0.250		0.554	0.0	0.0	1.436	-0.939	2.929	-1.820
0.500		0.554	0.0	0.0	0.683	-1.149	2.386	-1.277
0.750		0.554	0.0	0.0	-0.070	-1.358	1.982	-0.874
1.000		0.554	0.0	0.0	-0.822	-1.568	2.944	-1.836

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.260	0.0	0.0	4.348	-5.976	8.585	-8.064
0.250		0.260	0.0	0.0	1.951	-2.701	4.912	-4.392
0.500		0.260	0.0	0.0	-0.446	-1.425	2.131	-1.610
0.750		0.260	0.0	0.0	-2.843	-0.149	3.252	-2.751
1.000		0.260	0.0	0.0	-5.239	1.126	6.626	-6.105

MEMBER 98

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.002	0.0	0.0	-8.838	9.154	17.986	-17.989
0.250		-0.002	0.0	0.0	-4.860	7.316	12.174	-12.178
0.500		-0.002	0.0	0.0	-0.886	5.479	6.363	-6.367
0.750		-0.002	0.0	0.0	3.087	3.641	6.726	-6.730
1.000		-0.002	0.0	0.0	7.061	1.803	8.863	-8.866

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.006	0.0	0.0	107.847	2.197	110.038	-110.050
0.250		-0.006	0.0	0.0	57.110	1.631	58.735	-58.747
0.500		-0.006	0.0	0.0	6.373	1.065	7.431	-7.443
0.750		-0.006	0.0	0.0	-44.365	0.499	44.857	-44.869
1.000		-0.006	0.0	0.0	-95.102	-0.068	95.164	-95.176

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	8.109	0.0	0.0	9.363	-26.597	44.069	-27.851
0.250		8.109	0.0	0.0	4.977	-12.183	25.269	-9.052
0.500		8.109	0.0	0.0	0.592	2.231	10.932	5.286
0.750		8.109	0.0	0.0	-3.794	16.645	28.548	-12.330
1.000		8.109	0.0	0.0	-8.179	31.059	47.347	-31.130

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.011	0.0	0.0	2.515	0.068	2.572	-2.598
0.250		-0.011	0.0	0.0	1.340	-0.046	1.374	-1.397
0.500		-0.011	0.0	0.0	0.165	-0.159	0.313	-0.336
0.750		-0.011	0.0	0.0	-1.010	-0.273	1.271	-1.294
1.000		-0.011	0.0	0.0	-2.185	-0.387	2.560	-2.583

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.015	0.0	0.0	10.640	0.447	11.072	-11.102
0.250		-0.015	0.0	0.0	5.797	0.251	6.034	-6.063
0.500		-0.015	0.0	0.0	0.954	0.056	0.995	-1.025
0.750		-0.015	0.0	0.0	-3.889	-0.140	4.014	-4.043
1.000		-0.015	0.0	0.0	-8.732	-0.335	9.052	-9.082

MEMBER 95

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-9.053	0.0	0.0	-2.127	71.010	64.084	-82.190
0.250		-9.053	0.0	0.0	-0.059	53.758	44.764	-62.870
0.500		-9.053	0.0	0.0	2.010	36.506	29.463	-47.569
0.750		-9.053	0.0	0.0	4.078	19.254	14.279	-32.385
1.000		-9.053	0.0	0.0	6.146	2.002	-0.905	-17.201

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-10.305	0.0	0.0	30.264	88.606	108.565	-129.174
0.250		-10.305	0.0	0.0	15.308	72.675	77.678	-98.287
0.500		-10.305	0.0	0.0	0.352	56.744	46.791	-67.400
0.750		-10.305	0.0	0.0	-14.604	40.813	45.112	-65.721
1.000		-10.305	0.0	0.0	-29.560	24.881	44.137	-64.746

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-18.642	0.0	0.0	-843.815	-671.056	1496.229	-1533.513
0.250		-18.642	0.0	0.0	-450.267	-323.804	755.428	-792.713
0.500		-18.642	0.0	0.0	-56.718	23.449	61.525	-98.809
0.750		-18.642	0.0	0.0	336.830	370.701	688.889	-726.173
1.000		-18.642	0.0	0.0	730.378	717.954	1429.690	-1466.974

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0.531	0.0	0.0	-0.529	0.169	1.230	-0.167
0.250		0.531	0.0	0.0	-0.674	-0.596	1.801	-0.739
0.500		0.531	0.0	0.0	-0.820	-1.361	2.712	-1.649
0.750		0.531	0.0	0.0	-0.965	-2.126	3.622	-2.560
1.000		0.531	0.0	0.0	-1.111	-2.891	4.533	-3.470

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.192	0.0	0.0	-0.851	2.046	2.705	-3.089
0.250		-0.192	0.0	0.0	-1.608	1.654	3.070	-3.454
0.500		-0.192	0.0	0.0	-2.365	1.262	3.435	-3.819
0.750		-0.192	0.0	0.0	-3.122	0.870	3.800	-4.184
1.000		-0.192	0.0	0.0	-3.879	0.478	4.165	-4.549

MEMBER 96

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						

0.0	FR	10,185	0.0	0.0	22,962	150,110	183,257	-162,687
0.250		10,185	0.0	0.0	15,421	62,052	87,658	-67,289
0.500		10,185	0.0	0.0	7,881	-26,006	44,071	-25,702
0.750		10,185	0.0	0.0	0,340	-114,064	124,588	-104,219
1.000		10,185	0.0	0.0	-7,201	-202,122	219,507	-199,138

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	523,751	0.0	0.0	-165,130	104,736	795,618	253,884
0.250		523,751	0.0	0.0	-85,971	39,087	648,809	398,692
0.500		523,751	0.0	0.0	-6,813	-26,563	557,126	490,376
0.750		523,751	0.0	0.0	72,346	-92,212	688,309	359,193
1.000		523,751	0.0	0.0	151,505	-157,861	833,117	214,385

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	2,197	0.0	0.0	-9,624	5,420	17,242	-12,847
0.250		2,197	0.0	0.0	-2,817	2,266	7,280	-2,886
0.500		2,197	0.0	0.0	3,991	-0,888	7,076	-2,682
0.750		2,197	0.0	0.0	10,798	-4,042	17,038	-12,643
1.000		2,197	0.0	0.0	17,606	-7,196	26,999	-22,605

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0,465	0.0	0.0	5,373	13,830	19,668	-18,738
0.250		0,465	0.0	0.0	3,087	9,809	13,361	-12,431
0.500		0,465	0.0	0.0	0,801	5,788	7,054	-6,124
0.750		0,465	0.0	0.0	-1,485	1,767	3,717	-2,787
1.000		0,465	0.0	0.0	-3,771	-2,254	6,490	-5,560

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	38,143	0.0	0.0	-11,291	9,107	58,541	17,744
0.250		38,143	0.0	0.0	-6,789	5,251	50,183	26,103
0.500		38,143	0.0	0.0	-2,287	1,394	41,825	34,461
0.750		38,143	0.0	0.0	2,214	-2,462	42,820	33,466
1.000		38,143	0.0	0.0	6,716	-6,319	51,178	25,108

MEMBER 97

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-743,325	0.0	0.0	-201,873	124,918	-416,535	-1070,115
0.250		-743,325	0.0	0.0	-75,238	57,567	-610,519	-876,130
0.500		-743,325	0.0	0.0	51,396	-9,785	-682,146	-804,503
0.750		-743,325	0.0	0.0	178,030	-77,133	-488,162	-998,487
1.000		-743,325	0.0	0.0	304,664	-144,483	-294,178	-1192,471

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-413,927	0.0	0.0	-182,894	63,507	-167,526	-660,328
0.250		-413,927	0.0	0.0	-92,584	18,500	-303,044	-524,811
0.500		-413,927	0.0	0.0	-1,874	-26,507	-385,546	-442,308
0.750		-413,927	0.0	0.0	88,837	-71,514	-255,776	-574,078
1.000		-413,927	0.0	0.0	179,147	-116,522	-118,259	-709,596

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	4,726	0.0	0.0	-1,811	-22,453	28,990	-19,538
0.250		4,726	0.0	0.0	-5,773	-12,858	21,357	-11,905

0.500	4,726	0.0	0.0	-5.735	-3,263	13,723	-4,271
0.750	4,726	0.0	0.0	-7.696	6,332	18,754	-9,302
1.000	4,726	0.0	0.0	-9.658	15,927	30,311	-20,859

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-40,837	0.0	0.0	-17,376	21,362	-2,099	-79,576
0.250		-40,837	0.0	0.0	-10,098	13,055	-17,685	-65,990
0.500		-40,837	0.0	0.0	-2,819	4,747	-33,270	-48,404
0.750		-40,837	0.0	0.0	4,459	-3,560	-32,818	-48,856
1.000		-40,837	0.0	0.0	11,737	-11,868	-17,232	-64,442

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-24,232	0.0	0.0	-20,420	5,071	1,259	-49,724
0.250		-24,232	0.0	0.0	-15,933	0,977	-9,323	-39,142
0.500		-24,232	0.0	0.0	-7,445	-3,118	-13,669	-34,795
0.750		-24,232	0.0	0.0	-0,958	-7,212	-16,062	-32,402
1.000		-24,232	0.0	0.0	5,530	-11,307	-7,596	-41,068

MEMBER 98

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	508,888	0.0	0.0	151,833	26,481	687,203	330,574
0.250		508,888	0.0	0.0	60,542	20,711	590,141	427,636
0.500		508,888	0.0	0.0	-30,750	14,940	554,579	463,198
0.750		508,888	0.0	0.0	-122,042	9,170	640,100	377,677
1.000		508,888	0.0	0.0	-213,334	3,400	725,622	292,155

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-262,621	0.0	0.0	-24,734	-36,931	-200,956	-324,287
0.250		-262,621	0.0	0.0	-27,158	-5,649	-229,815	-295,428
0.500		-262,621	0.0	0.0	-29,581	25,633	-207,408	-317,835
0.750		-262,621	0.0	0.0	-32,004	56,915	-173,702	-351,540
1.000		-262,621	0.0	0.0	-34,427	88,197	-139,997	-385,246

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-23,752	0.0	0.0	9,553	3,745	-10,454	-37,051
0.250		-23,752	0.0	0.0	5,209	-1,357	-17,186	-30,318
0.500		-23,752	0.0	0.0	0,864	-6,459	-16,429	-31,076
0.750		-23,752	0.0	0.0	-3,480	-11,561	-8,710	-38,794
1.000		-23,752	0.0	0.0	-7,825	-16,663	0,736	-48,241

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	32,074	0.0	0.0	9,051	3,363	44,489	19,660
0.250		32,074	0.0	0.0	4,597	2,340	39,012	25,137
0.500		32,074	0.0	0.0	0,144	1,318	33,536	30,613
0.750		32,074	0.0	0.0	-4,310	0,295	36,679	27,470
1.000		32,074	0.0	0.0	-8,764	-0,728	41,567	22,582

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-20,692	0.0	0.0	-19,028	-5,056	3,393	-44,776
0.250		-20,692	0.0	0.0	-12,772	-2,642	-5,277	-36,106
0.500		-20,692	0.0	0.0	-6,516	-0,227	-13,948	-27,435
0.750		-20,692	0.0	0.0	-0,261	2,187	-18,244	-23,139

1.000	-20.692	0.0	0.0	5.995	4.602	-10.095.	-31.289

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LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	128.197	0.0	0.0	5.457	167.592	301.246	-44.852
0.250	128.197	0.0	0.0	-1.166	106.053	235.416	20.979
0.500	128.197	0.0	0.0	-7.789	44.513	180.499	75.896
0.750	128.197	0.0	0.0	-14.412	-17.027	159.636	96.759
1.000	128.197	0.0	0.0	-21.034	-78.567	227.798	28.596

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-173.997	0.0	0.0	-84.623	119.582	30.208	-378.202
0.250	-173.997	0.0	0.0	-63.655	76.976	-33.366	-314.628
0.500	-173.997	0.0	0.0	-42.686	34.371	-96.940	-251.054
0.750	-173.997	0.0	0.0	-21.718	-8.235	-144.044	-203.950
1.000	-173.997	0.0	0.0	-0.750	-50.840	-122.407	-225.587

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-77.106	0.0	0.0	-25.536	-17.577	-34.193	-120.019
0.250	-77.106	0.0	0.0	-12.877	-8.726	-55.502	-98.709
0.500	-77.106	0.0	0.0	-0.418	0.124	-76.563	-77.648
0.750	-77.106	0.0	0.0	12.040	8.975	-56.090	-98.121
1.000	-77.106	0.0	0.0	24.499	17.826	-34.781	-119.431

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	3.874	0.0	0.0	-1.919	10.770	16.563	-8.816
0.250		3.874	0.0	0.0	-1.614	6.658	12.146	-4.398
0.500		3.874	0.0	0.0	-1.308	2.546	7.729	0.019
0.750		3.874	0.0	0.0	-1.003	-1.566	6.443	1.305
1.000		3.874	0.0	0.0	-0.698	-5.678	10.249	-2.501

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-8.818	0.0	0.0	-4.053	10.391	5.626	-23.262
0.250		-8.818	0.0	0.0	-2.933	6.445	0.561	-18.197
0.500		-8.818	0.0	0.0	-1.814	2.500	-4.505	-13.131
0.750		-8.818	0.0	0.0	-0.694	-1.446	-6.677	-10.958
1.000		-8.818	0.0	0.0	0.425	-5.392	-3.001	-14.635

MEMBER 100

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	11.659	0.0	0.0	-60.515	-107.968	180.142	-156.825
0.250		11.659	0.0	0.0	-64.121	-51.608	127.388	-104.071
0.500		11.659	0.0	0.0	-67.728	4.752	84.139	-60.821
0.750		11.659	0.0	0.0	-71.334	61.112	144.105	-120.788
1.000		11.659	0.0	0.0	-74.941	117.473	204.072	-180.755

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0	FR	-10,370	0.0	0.0	-59,598	-73,982	123,209	-143,950
0.250		-10,370	0.0	0.0	-31,444	-48,732	69,806	-90,546
0.500		-10,370	0.0	0.0	-3,291	-23,482	16,402	-37,143
0.750		-10,370	0.0	0.0	24,863	1,768	16,261	-37,002
1.000		-10,370	0.0	0.0	53,017	27,018	69,665	-90,405

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-1,352	0.0	0.0	2,503	5,330	6,481	-9,184
0.250		-1,352	0.0	0.0	4,486	2,172	5,306	-8,009
0.500		-1,352	0.0	0.0	6,469	-0,987	6,104	-8,808
0.750		-1,352	0.0	0.0	8,453	-4,145	11,246	-13,949
1.000		-1,352	0.0	0.0	10,436	-7,303	16,387	-19,091

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-1,080	0.0	0.0	-7,053	-2,906	8,880	-11,039
0.250		-1,080	0.0	0.0	-6,495	-1,532	6,948	-9,107
0.500		-1,080	0.0	0.0	-5,936	-0,159	5,015	-7,174
0.750		-1,080	0.0	0.0	-5,377	1,215	5,515	-7,672
1.000		-1,080	0.0	0.0	-4,819	2,588	6,327	-8,486

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0,997	0.0	0.0	-4,520	0,247	3,771	-5,765
0.250		-0,997	0.0	0.0	-1,114	-0,739	0,657	-2,851
0.500		-0,997	0.0	0.0	2,292	-1,726	3,021	-5,015
0.750		-0,997	0.0	0.0	5,698	-2,713	7,414	-9,407
1.000		-0,997	0.0	0.0	9,104	-3,700	11,807	-13,800

MEMBER 101

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	127,690	0.0	0.0	-9,912	-40,792	178,398	76,985
0.250		127,690	0.0	0.0	0,509	-33,717	161,916	93,463
0.500		127,690	0.0	0.0	10,930	-26,643	165,263	90,117
0.750		127,690	0.0	0.0	21,352	-19,568	168,609	86,770
1.000		127,690	0.0	0.0	31,773	-12,493	171,956	83,423

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-157,107	0.0	0.0	-10,186	-21,139	-125,782	-188,432
0.250		-157,107	0.0	0.0	16,346	-30,247	-110,515	-203,700
0.500		-157,107	0.0	0.0	42,877	-39,354	-74,876	-239,339
0.750		-157,107	0.0	0.0	69,409	-48,462	-39,236	-274,978
1.000		-157,107	0.0	0.0	95,941	-57,569	-3,597	-310,618

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-77,278	0.0	0.0	22,780	23,053	-31,445	-123,111
0.250		-77,278	0.0	0.0	13,084	9,350	-54,844	-99,712
0.500		-77,278	0.0	0.0	3,388	-4,353	-69,536	-85,019
0.750		-77,278	0.0	0.0	-6,307	-18,056	-52,914	-101,641
1.000		-77,278	0.0	0.0	-16,003	-31,759	-29,516	-125,040

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	3,975	0.0	0.0	-1,147	-5,907	11,028	-3,081

0.250	3.973	0.0	0.0	-0.600	-2.694	7.267	0.680
0.500	3.973	0.0	0.0	-0.052	0.520	4.546	3.401
0.750	3.973	0.0	0.0	0.495	3.733	8.202	-0.255
1.000	3.973	0.0	0.0	1.043	6.947	11.963	-4.016

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-9.302	0.0	0.0	-1.053	-1.753	-6.496	-12.108
0.250		-9.302	0.0	0.0	0.197	-2.569	-6.556	-12.068
0.500		-9.302	0.0	0.0	1.447	-3.385	-4.470	-14.133
0.750		-9.302	0.0	0.0	2.696	-4.201	-2.404	-16.199
1.000		-9.302	0.0	0.0	3.946	-5.017	-0.339	-18.265

MEMBER 102

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	479.601	0.0	0.0	-526.184	-66.044	871.829	87.374
0.250		479.601	0.0	0.0	-235.915	-48.140	763.656	195.547
0.500		479.601	0.0	0.0	-145.645	-30.236	655.482	303.720
0.750		479.601	0.0	0.0	-55.376	-12.332	547.309	411.893
1.000		479.601	0.0	0.0	34.893	5.572	520.067	439.136

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	361.916	0.0	0.0	-174.783	-81.442	618.141	105.690
0.250		361.916	0.0	0.0	-124.540	-59.932	546.387	177.444
0.500		361.916	0.0	0.0	-74.297	-38.421	474.633	249.198
0.750		361.916	0.0	0.0	-24.054	-16.910	402.879	320.952
1.000		361.916	0.0	0.0	26.190	4.601	392.706	331.125

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-135.065	0.0	0.0	23.975	-10.010	-101.080	-169.051
0.250		-135.065	0.0	0.0	11.961	-7.452	-115.652	-154.479
0.500		-135.065	0.0	0.0	-0.053	-4.894	-130.119	-140.012
0.750		-135.065	0.0	0.0	-12.067	-2.336	-120.662	-149.468
1.000		-135.065	0.0	0.0	-24.081	0.222	-110.763	-159.368

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	35.859	0.0	0.0	-5.474	5.750	45.083	26.634
0.250		35.859	0.0	0.0	-3.911	1.964	41.735	29.984
0.500		35.859	0.0	0.0	-2.348	0.177	38.384	33.333
0.750		35.859	0.0	0.0	-0.785	-1.609	38.252	33.465
1.000		35.859	0.0	0.0	0.778	-3.395	40.032	31.685

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	19.341	0.0	0.0	-1.645	-8.129	29.115	9.568
0.250		19.341	0.0	0.0	-0.955	-5.193	25.489	13.194
0.500		19.341	0.0	0.0	-0.265	-2.256	21.863	16.820
0.750		19.341	0.0	0.0	0.426	0.680	20.447	18.236
1.000		19.341	0.0	0.0	1.116	3.616	24.073	14.610

MEMBER 103

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	462,384	0.0	0.0	-46,052	-50,353	558,789	365,980
0.250		462,384	0.0	0.0	48,122	-14,403	524,909	399,859
0.500		462,384	0.0	0.0	142,296	21,548	626,228	298,540
0.750		462,384	0.0	0.0	236,470	57,498	756,352	168,417
1.000		462,384	0.0	0.0	330,644	93,448	886,476	38,292

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	353,121	0.0	0.0	-15,034	-22,947	391,102	315,140
0.250		353,121	0.0	0.0	30,270	-16,393	399,783	306,458
0.500		353,121	0.0	0.0	75,573	-9,839	438,535	267,709
0.750		353,121	0.0	0.0	120,877	-3,285	477,282	228,960
1.000		353,121	0.0	0.0	166,180	5,269	522,570	183,672

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-135,635	0.0	0.0	-22,524	-7,580	-105,529	-165,738
0.250		-135,635	0.0	0.0	-12,304	-2,081	-121,248	-150,019
0.500		-135,635	0.0	0.0	-2,083	3,417	-130,134	-141,135
0.750		-135,635	0.0	0.0	8,138	8,916	-118,580	-152,687
1.000		-135,635	0.0	0.0	18,359	14,414	-102,860	-168,406

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	36,010	0.0	0.0	-0,822	-4,740	41,571	30,448
0.250		36,010	0.0	0.0	0,816	-2,095	38,921	33,098
0.500		36,010	0.0	0.0	2,454	0,549	39,013	33,007
0.750		36,010	0.0	0.0	4,091	3,194	43,295	28,724
1.000		36,010	0.0	0.0	5,729	5,839	47,577	24,442

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	19,642	0.0	0.0	0.530	5.357	25.529	13.755
0.250		19,642	0.0	0.0	1.229	0.947	21.818	17.466
0.500		19,642	0.0	0.0	1.929	-3.463	25.034	14.250
0.750		19,642	0.0	0.0	2.628	-7.873	30.143	9.141
1.000		19,642	0.0	0.0	3.327	-12.283	35.252	4.032

MEMBER 104

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	51,620	0.0	0.0	96,265	127,817	275,702	-172,462
0.250		51,620	0.0	0.0	75,666	91,505	218,791	-115,551
0.500		51,620	0.0	0.0	55,068	55,192	161,880	-58,640
0.750		51,620	0.0	0.0	34,469	18,879	104,969	-1,729
1.000		51,620	0.0	0.0	13,871	-17,433	82,924	20,316

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-105,635	0.0	0.0	-46,745	134,653	75,764	-287,033
0.250		-105,635	0.0	0.0	-30,766	88,205	13,336	-224,606
0.500		-105,635	0.0	0.0	-14,786	41,758	-49,091	-162,178
0.750		-105,635	0.0	0.0	1,194	-4,690	-99,751	-111,519
1.000		-105,635	0.0	0.0	17,173	-51,138	-37,324	-173,946

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-109.562	0.0	0.0	-17.692	3.590	-88.280	-130.845
0.250		-109.562	0.0	0.0	-7.565	1.095	-100.901	-118.223
0.500		-109.562	0.0	0.0	2.562	-1.399	-105.601	-113.523
0.750		-109.562	0.0	0.0	12.689	-3.894	-92.979	-126.145
1.000		-109.562	0.0	0.0	22.816	-6.389	-80.357	-138.767

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-3.199	0.0	0.0	4.216	8.372	9.389	-15.787
0.250		-3.199	0.0	0.0	3.117	6.064	5.983	-12.380
0.500		-3.199	0.0	0.0	2.018	3.757	2.576	-8.974
0.750		-3.199	0.0	0.0	0.919	1.449	-0.851	-5.567
1.000		-3.199	0.0	0.0	-0.180	-0.858	-2.160	-4.238

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	17.363	0.0	0.0	0.287	10.306	27.956	6.771
0.250		17.363	0.0	0.0	0.325	6.194	23.880	10.847
0.500		17.363	0.0	0.0	0.359	2.081	19.804	14.923
0.750		17.363	0.0	0.0	0.395	-2.031	19.789	14.938
1.000		17.363	0.0	0.0	0.431	-6.143	23.937	10.789

MEMBER 105

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	37.973	0.0	0.0	19.988	68.586	126.548	-50.601
0.250		37.973	0.0	0.0	-13.803	19.980	71.757	4.190

0.500	37,973	0.0	0.0	-47,595	-28,625	114,193	-38,247
0.750	37,973	0.0	0.0	-81,386	-77,231	196,590	-120,643
1.000	37,973	0.0	0.0	-115,178	-125,836	278,987	-203,041

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-94,111	0.0	0.0	1,666	15,440	-77,005	-111,216
0.250		-94,111	0.0	0.0	7,126	8,480	-78,505	-109,717
0.500		-94,111	0.0	0.0	12,586	1,521	-80,004	-108,217
0.750		-94,111	0.0	0.0	18,045	-5,439	-70,627	-117,595
1.000		-94,111	0.0	0.0	23,505	-12,398	-58,207	-130,014

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-110,051	0.0	0.0	24,066	-8,340	-77,645	-142,457
0.250		-110,051	0.0	0.0	11,848	-4,847	-93,356	-126,746
0.500		-110,051	0.0	0.0	-0,371	-1,355	-108,325	-111,776
0.750		-110,051	0.0	0.0	-12,589	2,138	-95,324	-124,778
1.000		-110,051	0.0	0.0	-24,808	5,630	-79,613	-140,489

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-2,799	0.0	0.0	0,983	4,607	2,791	-8,589
0.250		-2,799	0.0	0.0	-0,285	1,595	-0,919	-4,679
0.500		-2,799	0.0	0.0	-1,553	-1,416	0,170	-5,768
0.750		-2,799	0.0	0.0	-2,821	-4,427	4,449	-10,047
1.000		-2,799	0.0	0.0	-4,089	-7,459	8,728	-14,326

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

0.0	FR	17.259	0.0	0.0	0.239	-4.559	22.057	12.461
0.250		17.259	0.0	0.0	0.153	-0.903	18.316	16.203
0.500		17.259	0.0	0.0	0.068	2.753	20.080	14.439
0.750		17.259	0.0	0.0	-0.018	6.409	23.686	10.832
1.000		17.259	0.0	0.0	-0.104	10.065	27.428	7.091

MEMBER 106

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-4.330	0.0	0.0	-57.717	29.765	83.150	-91.810
0.250		-4.330	0.0	0.0	-34.383	9.548	39.601	-48.261
0.500		-4.330	0.0	0.0	-11.048	-10.666	17.384	-26.043
0.750		-4.330	0.0	0.0	12.287	-30.880	38.837	-47.496
1.000		-4.330	0.0	0.0	35.621	-51.094	82.386	-91.045

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	11.980	0.0	0.0	-10.644	27.839	50.463	-26.503
0.250		11.980	0.0	0.0	1.962	10.251	28.173	-0.214
0.500		11.980	0.0	0.0	14.569	-7.376	33.925	-9.966
0.750		11.980	0.0	0.0	27.176	-24.964	64.139	-40.180
1.000		11.980	0.0	0.0	39.782	-42.592	94.354	-70.394

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.944	0.0	0.0	0.616	1.197	0.869	-2.757
0.250		-0.944	0.0	0.0	0.171	1.360	0.587	-2.475
0.500		-0.944	0.0	0.0	-0.274	1.524	0.854	-2.742
0.750		-0.944	0.0	0.0	-0.719	1.687	1.462	-3.350

1.000	-0.984	0.0	0.0	-1.165	1.850	2.070	-3.958

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	0.432	0.0	0.0	-0.660	0.784	1.875	-1.012
0.250	0.432	0.0	0.0	-0.484	-0.213	1.129	-0.265
0.500	0.432	0.0	0.0	-0.309	-1.210	1.950	-1.087
0.750	0.432	0.0	0.0	-0.133	-2.207	2.772	-1.908
1.000	0.432	0.0	0.0	0.042	-3.204	3.678	-2.814

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-0.457	0.0	0.0	0.857	5.086	3.486	-4.400
0.250	-0.457	0.0	0.0	0.681	1.753	2.177	-3.091
0.500	-0.457	0.0	0.0	0.906	0.419	0.868	-1.782
0.750	-0.457	0.0	0.0	0.930	-0.915	1.588	-2.302
1.000	-0.457	0.0	0.0	0.955	-2.248	2.746	-3.660

MEMBER 107

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-5.911	0.0	0.0	38.163	-19.150	51.382	-63.203
0.250	-5.911	0.0	0.0	39.484	-7.773	41.306	-53.127
0.500	-5.911	0.0	0.0	40.725	3.585	38.399	-50.220
0.750	-5.911	0.0	0.0	42.006	14.942	51.037	-62.859
1.000	-5.911	0.0	0.0	43.287	26.300	63.676	-75.497

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-9,700	0.0	0.0	18,290	-10,604	19,194	-38,593
0.250		-9,700	0.0	0.0	25,698	-5,775	19,773	-39,172
0.500		-9,700	0.0	0.0	29,106	-0,946	20,352	-39,751
0.750		-9,700	0.0	0.0	34,514	3,884	28,698	-48,097
1.000		-9,700	0.0	0.0	39,922	8,713	38,935	-58,334

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0,757	0.0	0.0	1,814	-5,569	6,626	-8,140
0.250		-0,757	0.0	0.0	1,222	-2,514	2,979	-4,494
0.500		-0,757	0.0	0.0	0,630	0,540	0,413	-1,927
0.750		-0,757	0.0	0.0	0,038	3,594	2,875	-4,390
1.000		-0,757	0.0	0.0	-0,554	6,648	6,444	-7,959

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0,111	0.0	0.0	1,270	1,081	2,462	-2,240
0.250		0,111	0.0	0.0	1,133	0,712	1,955	-1,733
0.500		0,111	0.0	0.0	0,995	0,343	1,448	-1,226
0.750		0,111	0.0	0.0	0,857	-0,026	0,994	-0,772
1.000		0,111	0.0	0.0	0,719	-0,395	1,225	-1,003

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0,674	0.0	0.0	1,227	-1,624	3,524	-2,177
0.250		0,674	0.0	0.0	1,085	-1,377	3,135	-1,786
0.500		0,674	0.0	0.0	0,939	-1,130	2,742	-1,395
0.750		0,674	0.0	0.0	0,795	-0,882	2,350	-1,003
1.000		0,674	0.0	0.0	0,650	-0,635	1,959	-0,612

MEMBER 108

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	12.855	0.0	0.0	-36.388	-60.242	109.485	-83.776
0.250		12.855	0.0	0.0	-42.669	-35.661	89.184	-63.475
0.500		12.855	0.0	0.0	-48.950	-7.079	68.883	-43.174
0.750		12.855	0.0	0.0	-55.231	19.503	87.588	-61.879
1.000		12.855	0.0	0.0	-61.511	46.085	120.451	-94.742

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-1.871	0.0	0.0	-17.242	-43.581	58.953	-62.694
0.250		-1.871	0.0	0.0	-16.229	-25.950	40.309	-44.050
0.500		-1.871	0.0	0.0	-15.216	-8.319	21.665	-25.406
0.750		-1.871	0.0	0.0	-14.204	9.312	21.645	-25.386
1.000		-1.871	0.0	0.0	-13.191	26.943	38.263	-42.004

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0.395	0.0	0.0	-0.589	0.675	1.660	-0.869
0.250		0.395	0.0	0.0	0.001	1.369	1.765	-0.974
0.500		0.395	0.0	0.0	0.591	2.063	3.049	-2.258
0.750		0.395	0.0	0.0	1.180	2.756	4.332	-3.542
1.000		0.395	0.0	0.0	1.770	3.450	5.616	-4.825

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.393	0.0	0.0	-1.593	-3.870	5.071	-5.856
0.250		-0.393	0.0	0.0	-1.551	-2.568	3.527	-4.312
0.500		-0.393	0.0	0.0	-1.509	-0.867	1.983	-2.768
0.750		-0.393	0.0	0.0	-1.466	0.835	1.708	-2.493
1.000		-0.393	0.0	0.0	-1.424	2.136	5.168	-3.953

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.101	0.0	0.0	-0.626	0.198	0.723	-0.924
0.250		-0.101	0.0	0.0	-0.493	-0.256	0.649	-0.850
0.500		-0.101	0.0	0.0	-0.360	-0.710	0.970	-1.172
0.750		-0.101	0.0	0.0	-0.228	-1.164	1.291	-1.493
1.000		-0.101	0.0	0.0	-0.095	-1.618	1.613	-1.814

MEMBER 109

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-12.978	0.0	0.0	0.036	0.053	-12.890	-13.066
0.250		-12.978	0.0	0.0	0.029	0.053	-12.896	-13.060
0.500		-12.978	0.0	0.0	0.023	0.053	-12.902	-13.054
0.750		-12.978	0.0	0.0	0.016	0.054	-12.908	-13.048
1.000		-12.978	0.0	0.0	0.010	0.054	-12.914	-13.041

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	43.767	0.0	0.0	-0.086	0.006	43.859	43.675

0.250	43.767	0.0	0.0	-0.064	0.005	43.836	43.697
0.500	43.767	0.0	0.0	-0.043	0.004	43.814	43.720
0.750	43.767	0.0	0.0	-0.021	0.003	43.791	43.742
1.000	43.767	0.0	0.0	0.000	0.002	43.769	43.764

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE / STRESS /

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-56.397	0.0	0.0	0.353	-0.019	-56.025	-56.769
0.250	-56.397	0.0	0.0	0.265	-0.015	-56.117	-56.676
0.500	-56.397	0.0	0.0	0.176	-0.010	-56.210	-56.584
0.750	-56.397	0.0	0.0	0.088	-0.006	-56.303	-56.491
1.000	-56.397	0.0	0.0	-0.000	-0.002	-56.394	-56.399

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE / STRESS /

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	4.457	0.0	0.0	-0.010	-0.008	4.476	4.438
0.250	4.457	0.0	0.0	-0.008	-0.008	4.474	4.441
0.500	4.457	0.0	0.0	-0.006	-0.008	4.472	4.443
0.750	4.457	0.0	0.0	-0.004	-0.009	4.470	4.445
1.000	4.457	0.0	0.0	-0.002	-0.009	4.467	4.447

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE / STRESS /

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-0.727	0.0	0.0	0.001	-0.005	-0.722	-0.733
0.250	-0.727	0.0	0.0	0.000	-0.005	-0.722	-0.732
0.500	-0.727	0.0	0.0	-0.000	-0.005	-0.722	-0.732
0.750	-0.727	0.0	0.0	-0.001	-0.005	-0.722	-0.733
1.000	-0.727	0.0	0.0	-0.001	-0.005	-0.722	-0.733

MEMBER 110

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	12,978	0.0	0.0	0.0	0.0	12,978	12,978
0.250		12,978	0.0	0.0	0.0	0.0	12,978	12,978
0.500		12,978	0.0	0.0	0.0	0.0	12,978	12,978
0.750		12,978	0.0	0.0	0.0	0.0	12,978	12,978
1.000		12,978	0.0	0.0	0.0	0.0	12,978	12,978

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-43,767	0.0	0.0	0.0	0.0	-43,767	-43,767
0.250		-43,767	0.0	0.0	0.0	0.0	-43,767	-43,767
0.500		-43,767	0.0	0.0	0.0	0.0	-43,767	-43,767
0.750		-43,767	0.0	0.0	0.0	0.0	-43,767	-43,767
1.000		-43,767	0.0	0.0	0.0	0.0	-43,767	-43,767

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	56,319	0.0	0.0	0.0	0.0	56,319	56,319
0.250		56,319	0.0	0.0	0.0	0.0	56,319	56,319
0.500		56,319	0.0	0.0	0.0	0.0	56,319	56,319
0.750		56,319	0.0	0.0	0.0	0.0	56,319	56,319
1.000		56,319	0.0	0.0	0.0	0.0	56,319	56,319

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-4,457	0.0	0.0	0.0	0.0	-4,457	-4,457
0.250		-4,457	0.0	0.0	0.0	0.0	-4,457	-4,457
0.500		-4,457	0.0	0.0	0.0	0.0	-4,457	-4,457

0.750	-4.457	0.0	0.0	0.0	0.0	-4.457	-4.457
1.000	-4.457	0.0	0.0	0.0	0.0	-4.457	-4.457

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						
0.0 FR	0.727	0.0	0.0	0.0	0.0	0.727	0.727
0.250	0.727	0.0	0.0	0.0	0.0	0.727	0.727
0.500	0.727	0.0	0.0	0.0	0.0	0.727	0.727
0.750	0.727	0.0	0.0	0.0	0.0	0.727	0.727
1.000	0.727	0.0	0.0	0.0	0.0	0.727	0.727

MEMBER 111

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						
0.0 FR	110.907	0.0	0.0	0.195	0.135	111.236	110.577
0.250	110.907	0.0	0.0	0.140	0.132	111.179	110.634
0.500	110.907	0.0	0.0	0.086	0.130	111.122	110.691
0.750	110.907	0.0	0.0	0.031	0.127	111.065	110.748
1.000	110.907	0.0	0.0	-0.023	0.125	111.054	110.759

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						
0.0 FR	20.581	0.0	0.0	0.038	0.017	20.636	20.526
0.250	20.581	0.0	0.0	0.027	0.017	20.625	20.536
0.500	20.581	0.0	0.0	0.017	0.017	20.614	20.547
0.750	20.581	0.0	0.0	0.007	0.016	20.604	20.557
1.000	20.581	0.0	0.0	-0.003	0.016	20.599	20.562

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-47.552	0.0	0.0	-0.337	-0.010	-47.205	-47.900
0.250		-47.552	0.0	0.0	-0.253	-0.006	-47.293	-47.812
0.500		-47.552	0.0	0.0	-0.169	-0.002	-47.381	-47.724
0.750		-47.552	0.0	0.0	-0.085	0.002	-47.465	-47.639
1.000		-47.552	0.0	0.0	-0.001	0.006	-47.545	-47.559

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	7.055	0.0	0.0	0.015	-0.007	7.077	7.033
0.250		7.055	0.0	0.0	0.012	-0.007	7.074	7.036
0.500		7.055	0.0	0.0	0.008	-0.007	7.070	7.040
0.750		7.055	0.0	0.0	0.005	-0.007	7.067	7.043
1.000		7.055	0.0	0.0	0.001	-0.007	7.064	7.046

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	7.567	0.0	0.0	0.014	0.008	7.588	7.546
0.250		7.567	0.0	0.0	0.010	0.007	7.584	7.549
0.500		7.567	0.0	0.0	0.006	0.007	7.580	7.553
0.750		7.567	0.0	0.0	0.002	0.007	7.576	7.557
1.000		7.567	0.0	0.0	-0.001	0.007	7.575	7.559

MEMBER 112

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-110.908	0.0	0.0	0.0	0.0	-110.908	-110.908
0.250		-110.908	0.0	0.0	0.0	0.0	-110.908	-110.908
0.500		-110.908	0.0	0.0	0.0	0.0	-110.908	-110.908
0.750		-110.908	0.0	0.0	0.0	0.0	-110.908	-110.908
1.000		-110.908	0.0	0.0	0.0	0.0	-110.908	-110.908

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-20.581	0.0	0.0	0.0	0.0	-20.581	-20.581
0.250		-20.581	0.0	0.0	0.0	0.0	-20.581	-20.581
0.500		-20.581	0.0	0.0	0.0	0.0	-20.581	-20.581
0.750		-20.581	0.0	0.0	0.0	0.0	-20.581	-20.581
1.000		-20.581	0.0	0.0	0.0	0.0	-20.581	-20.581

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	47.474	0.0	0.0	0.0	0.0	47.474	47.474
0.250		47.474	0.0	0.0	0.0	0.0	47.474	47.474
0.500		47.474	0.0	0.0	0.0	0.0	47.474	47.474
0.750		47.474	0.0	0.0	0.0	0.0	47.474	47.474
1.000		47.474	0.0	0.0	0.0	0.0	47.474	47.474

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-7.055	0.0	0.0	0.0	0.0	-7.055	-7.055
0.250		-7.055	0.0	0.0	0.0	0.0	-7.055	-7.055
0.500		-7.055	0.0	0.0	0.0	0.0	-7.055	-7.055
0.750		-7.055	0.0	0.0	0.0	0.0	-7.055	-7.055
1.000		-7.055	0.0	0.0	0.0	0.0	-7.055	-7.055

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-7.567	0.0	0.0	0.0	0.0	-7.567	-7.567
0.250		-7.567	0.0	0.0	0.0	0.0	-7.567	-7.567
0.500		-7.567	0.0	0.0	0.0	0.0	-7.567	-7.567
0.750		-7.567	0.0	0.0	0.0	0.0	-7.567	-7.567
1.000		-7.567	0.0	0.0	0.0	0.0	-7.567	-7.567

MEMBER 113

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-123.617	0.0	0.0	0.134	0.122	-123.360	-123.873
0.250		-123.617	0.0	0.0	0.134	0.092	-123.391	-123.842
0.500		-123.617	0.0	0.0	0.134	0.061	-123.421	-123.812
0.750		-123.617	0.0	0.0	0.134	0.031	-123.452	-123.781
1.000		-123.617	0.0	0.0	0.134	-0.000	-123.482	-123.751

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-73.636	0.0	0.0	0.238	0.073	-73.326	-73.947
0.250		-73.636	0.0	0.0	0.238	0.055	-73.344	-73.929
0.500		-73.636	0.0	0.0	0.238	0.036	-73.362	-73.911
0.750		-73.636	0.0	0.0	0.238	0.018	-73.380	-73.892
1.000		-73.636	0.0	0.0	0.238	-0.000	-73.398	-73.874

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0 FR	3.814	0.0	0.0	-3.926	1.997	9.737	-2.109
0.250	3.814	0.0	0.0	-3.297	1.026	8.137	-0.509
0.500	3.814	0.0	0.0	-2.668	0.056	6.538	1.090
0.750	3.814	0.0	0.0	-2.039	-0.914	6.767	0.861
1.000	3.814	0.0	0.0	-1.410	-1.885	7.109	0.520

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	0.008	0.0	0.0	-0.549	-0.223	0.780	-0.764
0.250	0.008	0.0	0.0	-0.300	-0.102	0.410	-0.394
0.500	0.008	0.0	0.0	-0.052	0.020	0.080	-0.064
0.750	0.008	0.0	0.0	0.197	0.141	0.345	-0.329
1.000	0.008	0.0	0.0	0.445	0.262	0.715	-0.699

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-0.097	0.0	0.0	-0.347	-0.061	0.311	-0.505
0.250	-0.097	0.0	0.0	-0.102	-0.042	0.046	-0.241
0.500	-0.097	0.0	0.0	0.144	-0.023	0.069	-0.264
0.750	-0.097	0.0	0.0	0.389	-0.004	0.296	-0.490
1.000	-0.097	0.0	0.0	0.635	0.015	0.553	-0.747

MEMBER 164

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-2.095	0.0	0.0	136.369	8.849	143.122	-147.313
0.250	-2.095	0.0	0.0	79.884	6.653	84.441	-88.632
0.500	-2.095	0.0	0.0	23.399	4.457	25.761	-29.952
0.750	-2.095	0.0	0.0	-33.086	2.262	33.252	-37.443

1.000	-2.095	0.0	0.0	-89.571	0.066	87.542	-91.733

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-4.779	0.0	0.0	-7.414	22.018	24.652	-34.211
0.250		-4.779	0.0	0.0	11.116	15.952	20.289	-29.847
0.500		-4.779	0.0	0.0	29.646	5.886	30.752	-40.311
0.750		-4.779	0.0	0.0	48.176	-2.181	45.577	-55.136
1.000		-4.779	0.0	0.0	66.705	-10.247	72.173	-81.732

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	3.805	0.0	0.0	5.064	-2.412	11.282	-3.671
0.250		3.805	0.0	0.0	3.955	-1.133	8.694	-1.283
0.500		3.805	0.0	0.0	2.846	0.146	6.797	0.814
0.750		3.805	0.0	0.0	1.737	1.424	6.966	0.644
1.000		3.805	0.0	0.0	0.627	2.703	7.136	0.474

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.068	0.0	0.0	1.007	0.152	1.228	-1.091
0.250		0.068	0.0	0.0	0.598	0.087	0.755	-0.617
0.500		0.068	0.0	0.0	0.189	0.022	0.279	-0.143
0.750		0.068	0.0	0.0	-0.219	-0.044	0.332	-0.195
1.000		0.068	0.0	0.0	-0.628	-0.109	0.806	-0.669

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.096	0.0	0.0	0.160	0.106	0.362	-0.170
0.250		0.096	0.0	0.0	0.153	0.052	0.301	-0.109

0,500	0,096	0,0	0,0	0,146	-0,001	0,243	-0,051
0,750	0,096	0,0	0,0	0,138	-0,055	0,289	-0,097
1,000	0,096	0,0	0,0	0,131	-0,109	0,336	-0,144

MEMBER 165

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	5,873	0,0	0,0	-13,220	22,556	41,649	-29,903
0,250		5,873	0,0	0,0	-25,231	15,119	46,223	-34,477
0,500		5,873	0,0	0,0	-37,241	7,683	50,797	-39,051
0,750		5,873	0,0	0,0	-49,252	0,246	55,370	-43,625
1,000		5,873	0,0	0,0	-61,262	-7,191	74,326	-62,580

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	0,755	0,0	0,0	-107,324	-8,568	116,646	-115,137
0,250		0,755	0,0	0,0	-51,562	-5,069	57,385	-55,875
0,500		0,755	0,0	0,0	4,200	-1,570	6,525	-5,015
0,750		0,755	0,0	0,0	59,962	1,929	62,646	-61,137
1,000		0,755	0,0	0,0	115,724	5,429	121,908	-120,398

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	3,903	0,0	0,0	1,967	-2,183	8,053	-0,248
0,250		3,903	0,0	0,0	1,952	-0,991	6,845	0,960
0,500		3,903	0,0	0,0	1,937	0,202	6,041	1,764
0,750		3,903	0,0	0,0	1,921	1,394	7,218	0,587
1,000		3,903	0,0	0,0	1,906	2,586	8,395	-0,590

LOADING 8 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.057	0.0	0.0	0.185	0.231	0.358	-0.472
0.250		-0.057	0.0	0.0	0.003	0.136	0.082	-0.196
0.500		-0.057	0.0	0.0	-0.178	0.041	0.163	-0.276
0.750		-0.057	0.0	0.0	-0.360	-0.054	0.357	-0.470
1.000		-0.057	0.0	0.0	-0.541	-0.148	0.633	-0.747

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.023	0.0	0.0	-0.411	0.035	0.468	-0.423
0.250		0.023	0.0	0.0	-0.174	0.005	0.202	-0.156
0.500		0.023	0.0	0.0	0.063	-0.024	0.110	-0.064
0.750		0.023	0.0	0.0	0.300	-0.053	0.376	-0.331
1.000		0.023	0.0	0.0	0.537	-0.083	0.642	-0.597

MEMBER 166

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	290.886	0.0	0.0	-0.641	-0.548	291.875	289.896
0.250		290.886	0.0	0.0	-0.498	-0.355	291.759	290.032
0.500		290.886	0.0	0.0	-0.355	-0.362	291.603	290.169
0.750		290.886	0.0	0.0	-0.213	-0.368	291.467	290.305
1.000		290.886	0.0	0.0	-0.070	-0.375	291.331	290.441

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-512.848	0.0	0.0	0.960	-0.301	-511.583	-514.104
0.250		-512.848	0.0	0.0	0.708	-0.289	-511.846	-513.841
0.500		-512.848	0.0	0.0	0.456	-0.277	-512.110	-513.577
0.750		-512.848	0.0	0.0	0.205	-0.265	-512.374	-513.314
1.000		-512.848	0.0	0.0	-0.047	-0.254	-512.543	-513.145

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-12.462	0.0	0.0	0.266	-0.019	-12.177	-12.747
0.250		-12.462	0.0	0.0	0.199	-0.016	-12.247	-12.677
0.500		-12.462	0.0	0.0	0.133	-0.013	-12.317	-12.607
0.750		-12.462	0.0	0.0	0.066	-0.009	-12.387	-12.537
1.000		-12.462	0.0	0.0	-0.001	-0.006	-12.455	-12.470

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	5.103	0.0	0.0	-0.010	0.001	5.114	5.092
0.250		5.103	0.0	0.0	-0.007	0.000	5.111	5.095
0.500		5.103	0.0	0.0	-0.005	0.000	5.108	5.098
0.750		5.103	0.0	0.0	-0.002	0.000	5.106	5.100
1.000		5.103	0.0	0.0	0.000	0.000	5.103	5.103

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-4.151	0.0	0.0	0.008	-0.001	-4.145	-4.160
0.250		-4.151	0.0	0.0	0.006	-0.001	-4.145	-4.158
0.500		-4.151	0.0	0.0	0.004	-0.000	-4.147	-4.156
0.750		-4.151	0.0	0.0	0.002	-0.000	-4.149	-4.154
1.000		-4.151	0.0	0.0	-0.000	-0.000	-4.151	-4.152

MEMBER 167

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-290.888	0.0	0.0	0.0	0.0	-290.888	-290.888
0.250		-290.888	0.0	0.0	0.0	0.0	-290.888	-290.888
0.500		-290.888	0.0	0.0	0.0	0.0	-290.888	-290.888
0.750		-290.888	0.0	0.0	0.0	0.0	-290.888	-290.888
1.000		-290.888	0.0	0.0	0.0	0.0	-290.888	-290.888

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	512.848	0.0	0.0	0.0	0.0	512.848	512.848
0.250		512.848	0.0	0.0	0.0	0.0	512.848	512.848
0.500		512.848	0.0	0.0	0.0	0.0	512.848	512.848
0.750		512.848	0.0	0.0	0.0	0.0	512.848	512.848
1.000		512.848	0.0	0.0	0.0	0.0	512.848	512.848

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	12.384	0.0	0.0	0.0	0.0	12.384	12.384
0.250		12.384	0.0	0.0	0.0	0.0	12.384	12.384
0.500		12.384	0.0	0.0	0.0	0.0	12.384	12.384
0.750		12.384	0.0	0.0	0.0	0.0	12.384	12.384
1.000		12.384	0.0	0.0	0.0	0.0	12.384	12.384

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						

0.0 FR	-5.103	0.0	0.0	0.0	0.0	-5.103	-5.103
0.250	-5.103	0.0	0.0	0.0	0.0	-5.103	-5.103
0.500	-5.103	0.0	0.0	0.0	0.0	-5.103	-5.103
0.750	-5.103	0.0	0.0	0.0	0.0	-5.103	-5.103
1.000	-5.103	0.0	0.0	0.0	0.0	-5.103	-5.103

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE / STRESS /

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	4.151	0.0	0.0	0.0	0.0	4.151	4.151
0.250	4.151	0.0	0.0	0.0	0.0	4.151	4.151
0.500	4.151	0.0	0.0	0.0	0.0	4.151	4.151
0.750	4.151	0.0	0.0	0.0	0.0	4.151	4.151
1.000	4.151	0.0	0.0	0.0	0.0	4.151	4.151

MEMBER 168

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE / STRESS /

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	294.750	0.0	0.0	0.651	-0.362	295.763	293.736
0.250	294.750	0.0	0.0	0.507	-0.369	295.625	293.874
0.500	294.750	0.0	0.0	0.362	-0.375	295.487	294.012
0.750	294.750	0.0	0.0	0.217	-0.382	295.349	294.150
1.000	294.750	0.0	0.0	0.072	-0.389	295.211	294.288

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE / STRESS /

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	506.749	0.0	0.0	0.957	0.250	507.956	505.541
0.250	506.749	0.0	0.0	0.709	0.238	507.695	505.802
0.500	506.749	0.0	0.0	0.460	0.227	507.435	506.062

0.750	506.749	0.0	0.0	0.211	0.215	507.174	506.323
1.000	506.749	0.0	0.0	-0.038	0.203	506.990	506.507

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-11.653	0.0	0.0	-0.265	-0.016	-11.372	-11.934
0.250		-11.653	0.0	0.0	-0.199	-0.013	-11.442	-11.864
0.500		-11.653	0.0	0.0	-0.132	-0.010	-11.511	-11.795
0.750		-11.653	0.0	0.0	-0.066	-0.006	-11.581	-11.725
1.000		-11.653	0.0	0.0	0.001	-0.003	-11.649	-11.657

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	5.197	0.0	0.0	0.010	0.000	5.207	5.186
0.250		5.197	0.0	0.0	0.008	0.000	5.205	5.189
0.500		5.197	0.0	0.0	0.005	0.000	5.202	5.191
0.750		5.197	0.0	0.0	0.003	0.000	5.199	5.194
1.000		5.197	0.0	0.0	-0.000	0.000	5.197	5.197

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	7.605	0.0	0.0	0.015	-0.000	7.621	7.589
0.250		7.605	0.0	0.0	0.011	-0.001	7.617	7.593
0.500		7.605	0.0	0.0	0.008	-0.001	7.613	7.596
0.750		7.605	0.0	0.0	0.004	-0.001	7.610	7.600
1.000		7.605	0.0	0.0	0.000	-0.001	7.606	7.604

MEMBER 169

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-294.752	0.0	0.0	0.0	0.0	-294.752	-294.752
0.250		-294.752	0.0	0.0	0.0	0.0	-294.752	-294.752
0.500		-294.752	0.0	0.0	0.0	0.0	-294.752	-294.752
0.750		-294.752	0.0	0.0	0.0	0.0	-294.752	-294.752
1.000		-294.752	0.0	0.0	0.0	0.0	-294.752	-294.752

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-506.752	0.0	0.0	0.0	0.0	-506.752	-506.752
0.250		-506.752	0.0	0.0	0.0	0.0	-506.752	-506.752
0.500		-506.752	0.0	0.0	0.0	0.0	-506.752	-506.752
0.750		-506.752	0.0	0.0	0.0	0.0	-506.752	-506.752
1.000		-506.752	0.0	0.0	0.0	0.0	-506.752	-506.752

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	11.574	0.0	0.0	0.0	0.0	11.574	11.574
0.250		11.574	0.0	0.0	0.0	0.0	11.574	11.574
0.500		11.574	0.0	0.0	0.0	0.0	11.574	11.574
0.750		11.574	0.0	0.0	0.0	0.0	11.574	11.574
1.000		11.574	0.0	0.0	0.0	0.0	11.574	11.574

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-5.197	0.0	0.0	0.0	0.0	-5.197	-5.197
0.250		-5.197	0.0	0.0	0.0	0.0	-5.197	-5.197
0.500		-5.197	0.0	0.0	0.0	0.0	-5.197	-5.197
0.750		-5.197	0.0	0.0	0.0	0.0	-5.197	-5.197
1.000		-5.197	0.0	0.0	0.0	0.0	-5.197	-5.197

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-7.605	0.0	0.0	0.0	0.0	-7.605	-7.605
0.250		-7.605	0.0	0.0	0.0	0.0	-7.605	-7.605
0.500		-7.605	0.0	0.0	0.0	0.0	-7.605	-7.605
0.750		-7.605	0.0	0.0	0.0	0.0	-7.605	-7.605
1.000		-7.605	0.0	0.0	0.0	0.0	-7.605	-7.605

MEMBER 170

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-585.135	0.0	0.0	0.005	0.577	-584.552	-585.717
0.250		-585.135	0.0	0.0	0.005	0.433	-584.696	-585.573
0.500		-585.135	0.0	0.0	0.005	0.289	-584.841	-585.428
0.750		-585.135	0.0	0.0	0.005	0.144	-584.985	-585.284
1.000		-585.135	0.0	0.0	0.005	-0.000	-585.129	-585.140

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	7.857	0.0	0.0	-0.813	-0.008	8.678	7.036
0.250		7.857	0.0	0.0	-0.813	-0.006	8.676	7.038
0.500		7.857	0.0	0.0	-0.813	-0.004	8.674	7.040
0.750		7.857	0.0	0.0	-0.813	-0.002	8.672	7.042
1.000		7.857	0.0	0.0	-0.813	-0.000	8.670	7.044

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-25.011	0.0	0.0	0.006	0.146	-24.859	-25.163
0.250		-25.011	0.0	0.0	0.006	0.110	-24.895	-25.127
0.500		-25.011	0.0	0.0	0.006	0.073	-24.932	-25.090
0.750		-25.011	0.0	0.0	0.006	0.037	-24.968	-25.054
1.000		-25.011	0.0	0.0	0.006	-0.000	-25.005	-25.017

LOADING 6 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-4.786	0.0	0.0	-0.000	0.005	-4.781	-4.791
0.250		-4.786	0.0	0.0	-0.000	0.004	-4.783	-4.790
0.500		-4.786	0.0	0.0	-0.000	0.002	-4.784	-4.789
0.750		-4.786	0.0	0.0	-0.000	0.001	-4.785	-4.788
1.000		-4.786	0.0	0.0	-0.000	-0.000	-4.786	-4.787

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	2.061	0.0	0.0	0.002	-0.002	2.064	2.057
0.250		2.061	0.0	0.0	0.002	-0.002	2.064	2.057
0.500		2.061	0.0	0.0	0.002	-0.001	2.063	2.058
0.750		2.061	0.0	0.0	0.002	-0.001	2.063	2.058
1.000		2.061	0.0	0.0	0.002	-0.000	2.062	2.059

MEMBER 171

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0	FR	585,139	0.0	0.0	0.0	0.0	585,139	585,139
0.250		585,139	0.0	0.0	0.0	0.0	585,139	585,139
0.500		585,139	0.0	0.0	0.0	0.0	585,139	585,139
0.750		585,139	0.0	0.0	0.0	0.0	585,139	585,139
1.000		585,139	0.0	0.0	0.0	0.0	585,139	585,139

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-7,857	0.0	0.0	0.0	0.0	-7,857	-7,857
0.250		-7,857	0.0	0.0	0.0	0.0	-7,857	-7,857
0.500		-7,857	0.0	0.0	0.0	0.0	-7,857	-7,857
0.750		-7,857	0.0	0.0	0.0	0.0	-7,857	-7,857
1.000		-7,857	0.0	0.0	0.0	0.0	-7,857	-7,857

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	24,933	0.0	0.0	0.0	0.0	24,933	24,933
0.250		24,933	0.0	0.0	0.0	0.0	24,933	24,933
0.500		24,933	0.0	0.0	0.0	0.0	24,933	24,933
0.750		24,933	0.0	0.0	0.0	0.0	24,933	24,933
1.000		24,933	0.0	0.0	0.0	0.0	24,933	24,933

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	4,786	0.0	0.0	0.0	0.0	4,786	4,786
0.250		4,786	0.0	0.0	0.0	0.0	4,786	4,786
0.500		4,786	0.0	0.0	0.0	0.0	4,786	4,786
0.750		4,786	0.0	0.0	0.0	0.0	4,786	4,786
1.000		4,786	0.0	0.0	0.0	0.0	4,786	4,786

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-2,061	0.0	0.0	0.0	0.0	-2,061	-2,061
0.250		-2,061	0.0	0.0	0.0	0.0	-2,061	-2,061
0.500		-2,061	0.0	0.0	0.0	0.0	-2,061	-2,061
0.750		-2,061	0.0	0.0	0.0	0.0	-2,061	-2,061
1.000		-2,061	0.0	0.0	0.0	0.0	-2,061	-2,061

MEMBER 172

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0,939	0.0	0.0	-10,328	-19,980	31,246	-29,369
0.250		0,939	0.0	0.0	-0.965	-3,141	5,044	-3,167
0.500		0,939	0.0	0.0	8,398	13,697	23,034	-21,157
0.750		0,939	0.0	0.0	17,761	30,536	49,236	-47,359
1.000		0,939	0.0	0.0	27,124	47,374	75,437	-73,560

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-1,867	0.0	0.0	39,834	13,933	51,899	-55,633
0.250		-1,867	0.0	0.0	-13,977	4,151	16,261	-19,995
0.500		-1,867	0.0	0.0	-67,787	-5,630	71,551	-75,284
0.750		-1,867	0.0	0.0	-121,598	-15,412	135,143	-138,876
1.000		-1,867	0.0	0.0	-175,408	-25,193	198,735	-202,468

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-45,334	0.0	0.0	106,405	60,672	121,743	-212,410
0.250		-45,334	0.0	0.0	61,326	34,977	50,969	-141,637

0.500	-45,334	0.0	0.0	16,286	9,283	-19,804	-70,863
0.750	-45,334	0.0	0.0	-28,833	-16,411	-0,089	-90,578
1.000	-45,334	0.0	0.0	-73,912	-42,106	70,684	-161,352

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-32,849	0.0	0.0	-3,067	-7,365	-22,418	-43,281
0.250		-32,849	0.0	0.0	-0,384	-1,699	-30,766	-34,933
0.500		-32,849	0.0	0.0	2,298	5,966	-26,585	-39,114
0.750		-32,849	0.0	0.0	4,980	9,632	-18,238	-47,461
1.000		-32,849	0.0	0.0	7,662	15,297	-9,890	-55,809

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-33,762	0.0	0.0	13,152	3,697	-16,913	-50,611
0.250		-33,762	0.0	0.0	-2,553	0,640	-30,569	-36,955
0.500		-33,762	0.0	0.0	-18,259	-2,417	-15,086	-52,438
0.750		-33,762	0.0	0.0	-33,965	-5,474	5,077	-73,280
1.000		-33,762	0.0	0.0	-49,670	-8,531	24,439	-91,963

MEMBER 173

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	1,135	0.0	0.0	16,272	-23,946	41,352	-39,085
0.250		1,135	0.0	0.0	-4,881	12,418	18,830	-16,161
0.500		1,135	0.0	0.0	-26,034	48,774	75,943	-73,673
0.750		1,135	0.0	0.0	-47,187	85,134	133,455	-131,186
1.000		1,135	0.0	0.0	-68,340	121,494	190,968	-188,699

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	1,727	0.0	0.0	35,119	-12,609	89,456	-46,002
0.250		1,727	0.0	0.0	0.080	6,191	9,998	-6,544
0.500		1,727	0.0	0.0	-34,960	28,992	65,079	-62,225
0.750		1,727	0.0	0.0	-70,000	49,793	121,520	-116,065
1.000		1,727	0.0	0.0	-105,039	70,594	177,360	-173,906

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-45,325	0.0	0.0	-105,677	61,679	122,030	-212,681
0.250		-45,325	0.0	0.0	-60,049	35,297	50,021	-140,671
0.500		-45,325	0.0	0.0	-14,421	8,916	-21,989	-68,662
0.750		-45,325	0.0	0.0	31,207	-17,466	3,347	-95,998
1.000		-45,325	0.0	0.0	76,836	-43,848	75,357	-166,007

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-32,786	0.0	0.0	5,624	-7,128	-20,035	-45,538
0.250		-32,786	0.0	0.0	0,867	5,091	-29,229	-36,364
0.500		-32,786	0.0	0.0	-3,891	13,309	-14,787	-50,786
0.750		-32,786	0.0	0.0	-9,848	23,528	0,589	-66,162
1.000		-32,786	0.0	0.0	-15,005	33,748	15,965	-81,538

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-32,586	0.0	0.0	12,062	-3,486	-17,078	-48,095
0.250		-32,586	0.0	0.0	1,805	1,926	-26,855	-36,317
0.500		-32,586	0.0	0.0	-8,452	7,298	-16,637	-46,336
0.750		-32,586	0.0	0.0	-18,709	12,670	-1,206	-63,965

1.000	-32,580	0.0	0.0	-28,966	18,042	18,421	-79,598

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LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-2,073	0.0	0.0	-1,084	-45,078	44,089	-48,235
0.250		-2,073	0.0	0.0	10,706	8,342	16,974	-21,121
0.500		-2,073	0.0	0.0	22,496	61,762	82,184	-86,330
0.750		-2,073	0.0	0.0	38,286	115,181	147,394	-151,540
1.000		-2,073	0.0	0.0	49,076	168,602	212,604	-216,750

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0,140	0.0	0.0	10,150	4,667	18,957	-16,676
0.250		0,140	0.0	0.0	-3,587	-6,352	10,039	-9,760
0.500		0,140	0.0	0.0	-21,285	-17,371	38,756	-38,477
0.750		0,140	0.0	0.0	-38,943	-28,390	67,473	-67,194
1.000		0,140	0.0	0.0	-56,641	-39,410	96,190	-95,911

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-45,338	0.0	0.0	-0,521	-122,723	77,905	-168,582
0.250		-45,338	0.0	0.0	-1,069	-70,647	26,378	-117,054
0.500		-45,338	0.0	0.0	-1,617	-18,571	-25,150	-65,527
0.750		-45,338	0.0	0.0	-2,166	33,505	-9,667	-81,009
1.000		-45,338	0.0	0.0	-2,714	85,581	42,957	-133,634

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	V SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-33,837	0.0	0.0	-8,996	-16,686	-18,156	-89,519
0.250		-33,837	0.0	0.0	1,479	1,510	-31,048	-36,627
0.500		-33,837	0.0	0.0	3,955	17,306	-12,576	-55,098
0.750		-33,837	0.0	0.0	6,430	35,302	5,895	-73,569
1.000		-33,837	0.0	0.0	8,905	49,298	24,366	-92,040

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	V SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-55,125	0.0	0.0	5,931	1,155	-28,000	-38,210
0.250		-55,125	0.0	0.0	-1,986	-1,162	-29,977	-36,273
0.500		-55,125	0.0	0.0	-7,903	-3,477	-21,745	-88,505
0.750		-55,125	0.0	0.0	-13,820	-5,792	-13,513	-52,737
1.000		-55,125	0.0	0.0	-19,738	-8,107	-5,280	-60,970

MEMBER 175

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	V SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0,889	0.0	0.0	20,768	35,317	56,974	-55,195
0.250		0,889	0.0	0.0	14,722	-98,440	112,051	-110,272
0.500		0,889	0.0	0.0	8,677	-226,196	237,762	-235,983
0.750		0,889	0.0	0.0	2,631	-359,953	363,473	-361,694
1.000		0,889	0.0	0.0	-3,415	-491,709	496,013	-496,236

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	V SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0	FR	-45,535	0.0	0.0	-181,583	-21,617	117,625	-208,695
0.250		-45,535	0.0	0.0	43,612	-14,280	12,358	-103,428
0.500		-45,535	0.0	0.0	228,768	-6,943	190,177	-281,247
0.750		-45,535	0.0	0.0	413,924	0,393	368,782	-459,852
1.000		-45,535	0.0	0.0	599,080	7,730	561,274	-652,344

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-126,441	0.0	0.0	32,536	19,683	-74,221	-178,660
0.250		-126,441	0.0	0.0	24,684	19,188	-82,569	-170,312
0.500		-126,441	0.0	0.0	16,832	18,692	-90,916	-161,965
0.750		-126,441	0.0	0.0	8,980	18,197	-99,264	-153,617
1.000		-126,441	0.0	0.0	1,128	17,702	-107,611	-145,270

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-104,536	0.0	0.0	5,282	10,374	-88,880	-120,193
0.250		-104,536	0.0	0.0	1,705	-12,711	-90,121	-118,952
0.500		-104,536	0.0	0.0	-1,873	-35,795	-66,868	-142,204
0.750		-104,536	0.0	0.0	-5,450	-58,880	-40,206	-168,867
1.000		-104,536	0.0	0.0	-9,028	-81,965	-13,544	-195,529

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-110,869	0.0	0.0	-38,747	-7,282	-70,840	-162,898
0.250		-110,869	0.0	0.0	-1,510	-0,086	-115,273	-118,466
0.500		-110,869	0.0	0.0	35,727	7,109	-74,034	-159,705
0.750		-110,869	0.0	0.0	72,964	14,304	-29,601	-204,137
1.000		-110,869	0.0	0.0	110,200	21,499	14,831	-248,569

MEMBER 176

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	38,100	0.0	0.0	-54,783	100,429	193,312	-117,112
0.250		38,100	0.0	0.0	-22,110	-67,451	127,862	-51,662
0.500		38,100	0.0	0.0	10,562	-235,731	284,394	-208,194
0.750		38,100	0.0	0.0	43,235	-403,812	485,147	-408,986
1.000		38,100	0.0	0.0	75,908	-571,892	685,900	-609,699

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	23,781	0.0	0.0	-84,296	57,420	165,497	-117,934
0.250		23,781	0.0	0.0	77,937	31,866	135,584	-88,021
0.500		23,781	0.0	0.0	240,169	6,312	270,262	-222,700
0.750		23,781	0.0	0.0	402,402	-19,242	445,425	-397,862
1.000		23,781	0.0	0.0	564,634	-44,796	633,211	-585,649

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-127,965	0.0	0.0	-29,527	17,768	-80,670	-175,260
0.250		-127,965	0.0	0.0	-37,674	14,736	-75,555	-180,375
0.500		-127,965	0.0	0.0	-45,821	11,705	-70,440	-185,490
0.750		-127,965	0.0	0.0	-53,967	8,673	-65,325	-190,605
1.000		-127,965	0.0	0.0	-62,114	5,641	-60,210	-195,720

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-95,745	0.0	0.0	-9,920	26,923	-58,902	-132,589

0.250	-95,745	0.0	0.0	-11,915	-4,432	-79,399	-112,092
0.500	-95,745	0.0	0.0	-13,910	-35,767	-46,049	-145,442
0.750	-95,745	0.0	0.0	-15,904	-67,142	-12,699	-178,792
1.000	-95,745	0.0	0.0	-17,899	-98,498	20,651	-212,142

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-99,327	0.0	0.0	-20,321	14,354	-64,652	-134,002
0.250		-99,327	0.0	0.0	4,226	8,004	-87,097	-111,557
0.500		-99,327	0.0	0.0	28,773	1,654	-68,900	-129,754
0.750		-99,327	0.0	0.0	53,321	-4,697	-41,309	-157,344
1.000		-99,327	0.0	0.0	77,868	-11,047	-10,412	-188,242

MEMBER 177

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-40,077	0.0	0.0	36,055	137,697	133,674	-213,829
0.250		-40,077	0.0	0.0	15,345	-50,091	25,359	-105,514
0.500		-40,077	0.0	0.0	-5,365	-237,880	203,167	-283,322
0.750		-40,077	0.0	0.0	-26,074	-425,668	411,665	-491,820
1.000		-40,077	0.0	0.0	-46,784	-613,457	620,163	-700,318

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	20,628	0.0	0.0	-46,992	-31,903	99,523	-58,267
0.250		20,628	0.0	0.0	93,222	-18,672	132,521	-91,265
0.500		20,628	0.0	0.0	233,435	-5,440	259,503	-218,247
0.750		20,628	0.0	0.0	373,648	7,791	402,067	-360,810
1.000		20,628	0.0	0.0	513,861	21,022	555,511	-514,255

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-127.726	0.0	0.0	-2.471	-38.401	-86.854	-168.598
0.250		-127.726	0.0	0.0	-3.633	-31.901	-92.192	-163.260
0.500		-127.726	0.0	0.0	-4.794	-25.402	-97.530	-157.922
0.750		-127.726	0.0	0.0	-5.956	-18.902	-102.867	-152.584
1.000		-127.726	0.0	0.0	-7.118	-12.403	-108.205	-147.247

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-116.136	0.0	0.0	6.136	38.576	-71.624	-160.648
0.250		-116.136	0.0	0.0	4.188	-2.777	-109.170	-123.101
0.500		-116.136	0.0	0.0	2.240	-43.950	-69.966	-162.306
0.750		-116.136	0.0	0.0	0.292	-85.083	-30.761	-201.510
1.000		-116.136	0.0	0.0	-1.657	-126.236	11.757	-244.028

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-100.261	0.0	0.0	-16.702	-5.980	-77.580	-122.943
0.250		-100.261	0.0	0.0	10.191	-6.943	-85.128	-117.395
0.500		-100.261	0.0	0.0	37.083	-7.906	-55.272	-145.251
0.750		-100.261	0.0	0.0	63.976	-8.870	-27.416	-173.107
1.000		-100.261	0.0	0.0	90.869	-9.833	0.440	-200.963

MEMBER 178

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	38,929	0.0	0.0	-25,934	-532,585	597,448	-519,590
0.250		38,929	0.0	0.0	-21,717	-254,812	315,458	-237,600
0.500		38,929	0.0	0.0	-17,501	22,962	79,391	-1,535
0.750		38,929	0.0	0.0	-13,284	300,735	352,948	-275,089
1.000		38,929	0.0	0.0	-9,067	578,508	626,504	-548,646

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-68,120	0.0	0.0	649,910	28,515	610,506	-746,545
0.250		-68,120	0.0	0.0	311,783	20,415	264,078	-400,317
0.500		-68,120	0.0	0.0	-26,345	12,314	-29,463	-106,776
0.750		-68,120	0.0	0.0	-364,470	4,213	300,563	-436,802
1.000		-68,120	0.0	0.0	-702,596	-5,888	638,365	-774,604

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-233,378	0.0	0.0	1,932	18,896	-212,551	-254,206
0.250		-233,378	0.0	0.0	-3,893	5,341	-224,145	-242,612
0.500		-233,378	0.0	0.0	-9,718	-8,214	-215,447	-251,310
0.750		-233,378	0.0	0.0	-15,542	-21,768	-196,068	-270,689
1.000		-233,378	0.0	0.0	-21,367	-35,323	-176,688	-290,068

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-95,162	0.0	0.0	-13,892	-91,603	10,333	-200,658
0.250		-95,162	0.0	0.0	-9,202	-39,074	-46,886	-143,438
0.500		-95,162	0.0	0.0	-4,511	13,454	-77,197	-113,127
0.750		-95,162	0.0	0.0	0,180	65,983	-28,999	-161,325
1.000		-95,162	0.0	0.0	4,870	118,512	28,220	-218,544

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-122.935	0.0	0.0	121.107	25.969	24.181	-270.010
0.250		-122.935	0.0	0.0	48.811	10.854	-65.270	-182.600
0.500		-122.935	0.0	0.0	-23.485	-4.261	-95.189	-150.681
0.750		-122.935	0.0	0.0	-95.781	-19.375	-7.778	-238.092
1.000		-122.935	0.0	0.0	-168.078	-34.490	79.633	-325.502

MEMBER 179

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	39.971	0.0	0.0	92.858	-604.782	737.607	-657.665
0.250		39.971	0.0	0.0	41.710	-292.411	374.091	-294.149
0.500		39.971	0.0	0.0	-9.435	19.961	69.366	10.576
0.750		39.971	0.0	0.0	-60.579	332.332	432.881	-352.939
1.000		39.971	0.0	0.0	-111.724	644.703	796.398	-716.456

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	68.112	0.0	0.0	629.516	-60.995	758.622	-622.399
0.250		68.112	0.0	0.0	298.193	-44.167	410.471	-274.248
0.500		68.112	0.0	0.0	-33.130	-27.340	128.581	7.642
0.750		68.112	0.0	0.0	-364.453	-10.512	443.076	-306.853
1.000		68.112	0.0	0.0	-695.776	6.316	770.203	-635.980

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START STRESS

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-230,307	0.0	0.0	-67,854	7,414	-161,039	-311,575
0.250		-230,307	0.0	0.0	-15,389	4,561	-216,358	-256,257
0.500		-230,307	0.0	0.0	37,076	1,707	-197,524	-275,090
0.750		-230,307	0.0	0.0	89,541	-1,147	-145,620	-326,995
1.000		-230,307	0.0	0.0	142,006	-4,000	-90,301	-382,313

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-96,420	0.0	0.0	-16,722	-105,482	23,785	-216,625
0.250		-96,420	0.0	0.0	-2,477	-46,109	-47,834	-145,007
0.500		-96,420	0.0	0.0	11,768	11,263	-73,588	-119,452
0.750		-96,420	0.0	0.0	26,014	68,636	-1,770	-191,070
1.000		-96,420	0.0	0.0	40,259	126,009	69,848	-262,688

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-89,050	0.0	0.0	90,216	-13,152	14,318	-192,418
0.250		-89,050	0.0	0.0	42,158	-8,477	-38,416	-139,684
0.500		-89,050	0.0	0.0	-5,901	-3,801	-79,546	-98,752
0.750		-89,050	0.0	0.0	-53,959	0,874	-34,217	-143,843
1.000		-89,050	0.0	0.0	-102,017	5,550	18,517	-196,617

MEMBER 180

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-78,967	0.0	0.0	-39,412	-681,933	642,378	-800,313
0.250		-78,967	0.0	0.0	-1,041	-524,809	246,882	-404,817

0.500	-78.967	0.0	0.0	37.329	32.316	-9.322	-148.615
0.750	-78.967	0.0	0.0	75.699	389.441	386.173	-544.108
1.000	-78.967	0.0	0.0	114.070	746.566	781.668	-939.603

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.459	0.0	0.0	539.740	15.149	552.430	-553.347
0.250		-0.459	0.0	0.0	247.712	4.425	251.678	-252.595
0.500		-0.459	0.0	0.0	-44.316	-4.299	48.157	-49.074
0.750		-0.459	0.0	0.0	-336.344	-13.024	348.908	-349.826
1.000		-0.459	0.0	0.0	-628.372	-21.748	649.660	-650.578

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-234.422	0.0	0.0	-7.478	-14.148	-212.796	-256.047
0.250		-234.422	0.0	0.0	-3.604	2.260	-228.557	-240.286
0.500		-234.422	0.0	0.0	0.270	18.668	-215.484	-253.359
0.750		-234.422	0.0	0.0	4.144	35.076	-195.202	-273.641
1.000		-234.422	0.0	0.0	8.017	51.484	-174.920	-293.923

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-126.259	0.0	0.0	-0.716	-141.512	15.969	-268.486
0.250		-126.259	0.0	0.0	0.957	-57.655	-67.647	-184.871
0.500		-126.259	0.0	0.0	2.630	26.202	-97.426	-155.091
0.750		-126.259	0.0	0.0	4.303	110.059	-11.897	-240.621
1.000		-126.259	0.0	0.0	5.976	193.916	73.634	-326.151

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

0.0	FR	-105.988	0.0	0.0	95.407	-12.629	2.092	-213.981
0.250		-105.988	0.0	0.0	41.027	-2.189	-62.728	-169.160
0.500		-105.988	0.0	0.0	-13.354	8.251	-88.340	-127.549
0.750		-105.988	0.0	0.0	-67.734	18.691	-19.519	-192.369
1.000		-105.988	0.0	0.0	-122.115	29.130	45.301	-257.189

MEMBER 181

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-350.202	0.0	0.0	83.536	-86.854	-185.811	-526.592
0.250		-350.202	0.0	0.0	60.549	-31.634	-260.019	-452.385
0.500		-350.202	0.0	0.0	85.562	23.587	-287.053	-425.350
0.750		-350.202	0.0	0.0	26.574	78.807	-250.820	-461.583
1.000		-350.202	0.0	0.0	7.587	134.028	-214.587	-497.817

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	615.209	0.0	0.0	-67.586	-64.291	727.086	503.333
0.250		615.209	0.0	0.0	-84.300	-47.687	747.157	483.262
0.500		615.209	0.0	0.0	-121.015	-31.003	767.227	463.192
0.750		615.209	0.0	0.0	-157.729	-14.359	787.298	443.121
1.000		615.209	0.0	0.0	-194.444	2.285	811.938	418.481

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	240.280	0.0	0.0	-48.508	-26.984	315.771	164.788
0.250		240.280	0.0	0.0	-15.430	-8.155	261.665	218.695
0.500		240.280	0.0	0.0	21.648	10.673	272.602	207.958
0.750		240.280	0.0	0.0	58.727	29.502	326.508	154.052

1.000	240.280	0.0	0.0	91.805	48.330	380.615	100.185

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-7.387	0.0	0.0	-11.363	18.138	22.114	-36.889
0.250		-7.387	0.0	0.0	-3.226	26.077	21.916	-36.691
0.500		-7.387	0.0	0.0	4.911	34.016	31.540	-46.315
0.750		-7.387	0.0	0.0	13.049	41.955	47.617	-62.391
1.000		-7.387	0.0	0.0	21.186	49.894	65.693	-78.468

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	18.678	0.0	0.0	-37.823	-8.325	64.826	-27.470
0.250		18.678	0.0	0.0	-32.348	-3.476	54.502	-17.146
0.500		18.678	0.0	0.0	-26.873	1.373	46.924	-9.568
0.750		18.678	0.0	0.0	-21.398	6.222	46.298	-8.942
1.000		18.678	0.0	0.0	-15.923	11.070	45.672	-8.316

MEMBER 182

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-355.000	0.0	0.0	53.753	-11.844	+290.069	-421.263
0.250		-355.000	0.0	0.0	36.169	39.105	+280.392	-430.940
0.500		-355.000	0.0	0.0	18.585	90.054	+247.027	-464.305
0.750		-355.000	0.0	0.0	1.000	141.004	+213.663	-497.670
1.000		-355.000	0.0	0.0	-16.584	191.953	-147.129	-564.203

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-610,866	0.0	0.0	179,747	174,756	-256,364	-965,369
0.250		-610,866	0.0	0.0	89,854	139,202	-381,811	-859,921
0.500		-610,866	0.0	0.0	-0.040	103,648	-507,179	-714,553
0.750		-610,866	0.0	0.0	-89,933	68,094	-452,839	-768,893
1.000		-610,866	0.0	0.0	-179,826	32,540	-398,500	-823,232

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	241,430	0.0	0.0	-19,587	-49,568	310,380	172,479
0.250		241,430	0.0	0.0	-38,553	-20,669	300,651	182,208
0.500		241,430	0.0	0.0	-57,518	8,026	306,974	175,885
0.750		241,430	0.0	0.0	-76,484	36,720	354,634	128,225
1.000		241,430	0.0	0.0	-95,450	65,415	402,294	80,565

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-7,316	0.0	0.0	15,583	17,583	25,650	-40,282
0.250		-7,316	0.0	0.0	8,644	28,587	23,916	-38,547
0.500		-7,316	0.0	0.0	-8,096	35,592	34,372	-49,003
0.750		-7,316	0.0	0.0	-14,835	44,597	54,116	-68,747
1.000		-7,316	0.0	0.0	-27,574	53,601	73,860	-88,491

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-14,019	0.0	0.0	-9,167	-8,294	3,442	-31,481
0.250		-14,019	0.0	0.0	-23,587	-3,704	13,271	-41,310
0.500		-14,019	0.0	0.0	-38,007	0,887	24,674	-52,912
0.750		-14,019	0.0	0.0	-52,426	5,477	45,864	-71,923
1.000		-14,019	0.0	0.0	-66,846	10,067	62,894	-90,933

MEMBER 183

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	711,078	0.0	0.0	-32,324	56,696	800,098	622,057
0.250		711,078	0.0	0.0	-30,138	80,768	821,983	600,172
0.500		711,078	0.0	0.0	-27,951	104,840	843,869	578,286
0.750		711,078	0.0	0.0	-25,764	128,912	865,754	556,401
1.000		711,078	0.0	0.0	-23,578	152,985	887,640	534,515

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.298	0.0	0.0	114,549	-17,510	131,762	-132,357
0.250		-0.298	0.0	0.0	45,876	-19,091	64,668	-65,264
0.500		-0.298	0.0	0.0	-22,798	-20,671	43,172	-43,767
0.750		-0.298	0.0	0.0	-91,472	-22,252	113,426	-114,022
1.000		-0.298	0.0	0.0	-160,146	-23,833	183,681	-184,276

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	220,238	0.0	0.0	0.404	57,920	278,563	161,914
0.250		220,238	0.0	0.0	0.623	19,662	240,524	199,953
0.500		220,238	0.0	0.0	0.842	-18,596	239,677	200,800
0.750		220,238	0.0	0.0	1.061	-56,855	278,154	162,323
1.000		220,238	0.0	0.0	1.279	-95,113	316,631	123,846

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	20,811	0.0	0.0	-0.729	41,255	62,775	-21,153
0.250		20,811	0.0	0.0	-0.618	34,521	55,950	-14,327
0.500		20,811	0.0	0.0	-0.506	27,808	49,125	-7,502
0.750		20,811	0.0	0.0	-0.394	21,095	42,300	-0,677
1.000		20,811	0.0	0.0	-0.282	14,382	35,475	6,148

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	1,716	0.0	0.0	-27,598	15,175	44,489	-41,058
0.250		1,716	0.0	0.0	-31,233	5,658	38,607	-35,176
0.500		1,716	0.0	0.0	-34,869	-3,860	40,444	-37,013
0.750		1,716	0.0	0.0	-38,505	-13,377	53,597	-50,166
1.000		1,716	0.0	0.0	-42,140	-22,895	66,750	-63,319

MEMBER 184

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-343,593	0.0	0.0	53,600	77,177	-212,816	-474,370
0.250		-343,593	0.0	0.0	47,492	60,360	-235,741	-451,445
0.500		-343,593	0.0	0.0	41,384	43,543	-258,666	-428,520
0.750		-343,593	0.0	0.0	35,276	26,726	-281,591	-405,595
1.000		-343,593	0.0	0.0	29,168	9,910	-304,516	-382,670

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	510,714	0.0	0.0	-181,519	-35,862	728,095	293,333

0.250	510.714	0.0	0.0	-155.269	-32.885	698.868	322.561
0.500	510.714	0.0	0.0	-129.019	-29.907	669.641	351.788
0.750	510.714	0.0	0.0	-102.770	-26.930	640.414	381.015
1.000	510.714	0.0	0.0	-76.520	-23.952	611.187	410.242

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	204.124	0.0	0.0	69.872	35.130	309.126	99.122
0.250	204.124	0.0	0.0	56.205	36.172	296.501	111.747
0.500	204.124	0.0	0.0	42.537	37.214	283.875	124.373
0.750	204.124	0.0	0.0	28.870	38.256	271.250	136.998
1.000	204.124	0.0	0.0	15.202	39.298	258.625	149.623

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-10.142	0.0	0.0	16.550	48.498	54.906	-75.190
0.250	-10.142	0.0	0.0	15.355	45.332	50.545	-70.829
0.500	-10.142	0.0	0.0	14.160	42.166	46.184	-66.467
0.750	-10.142	0.0	0.0	12.965	39.000	41.823	-62.106
1.000	-10.142	0.0	0.0	11.769	35.834	37.461	-57.745

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	10.353	0.0	0.0	-13.462	11.835	35.650	-14.944
0.250	10.353	0.0	0.0	-12.591	11.164	34.108	-13.402
0.500	10.353	0.0	0.0	-11.720	10.494	32.566	-11.860
0.750	10.353	0.0	0.0	-10.848	9.823	31.024	-10.318
1.000	10.353	0.0	0.0	-9.977	9.152	29.482	-8.776

MEMBER 185

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-228,426	0.0	0.0	-21,898	156,205	-50,323	-406,529
0.250		-228,426	0.0	0.0	-15,965	106,464	-105,998	-350,854
0.500		-228,426	0.0	0.0	-10,031	56,722	-161,673	-295,179
0.750		-228,426	0.0	0.0	-4,097	6,981	-217,348	-239,504
1.000		-228,426	0.0	0.0	1,837	-42,760	-183,829	-273,023

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-527,756	0.0	0.0	-139,403	108,508	-279,844	-775,667
0.250		-527,756	0.0	0.0	-121,527	82,463	-323,765	-731,746
0.500		-527,756	0.0	0.0	-103,652	56,419	-367,685	-687,826
0.750		-527,756	0.0	0.0	-85,776	30,374	-411,605	-643,906
1.000		-527,756	0.0	0.0	-67,900	4,329	-455,526	-599,985

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	201,168	0.0	0.0	-75,680	45,975	322,823	79,513
0.250		201,168	0.0	0.0	-62,410	44,835	308,414	93,922
0.500		201,168	0.0	0.0	-49,140	43,696	294,004	108,332
0.750		201,168	0.0	0.0	-35,870	42,556	279,594	122,742
1.000		201,168	0.0	0.0	-22,600	41,417	265,185	137,151

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-4,717	0.0	0.0	-20,374	51,664	67,321	-76,755
0.250		-4,717	0.0	0.0	-19,087	47,608	61,978	-71,412
0.500		-4,717	0.0	0.0	-17,799	43,553	56,635	-66,069

0.750	-8.717	0.0	0.0	-16.511	39.497	51.291	-60.725
1.000	-8.717	0.0	0.0	-15.224	35.441	45.948	-55.382

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						
0.0 FR	-14.310	0.0	0.0	-60.406	4.569	50.666	-79.285
0.250	-14.310	0.0	0.0	-56.820	4.111	46.622	-75.241
0.500	-14.310	0.0	0.0	-53.234	3.654	42.578	-71.197
0.750	-14.310	0.0	0.0	-49.647	3.197	38.535	-67.154
1.000	-14.310	0.0	0.0	-46.061	2.740	34.491	-63.110

MEMBER 186

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						
0.0 FR	607.305	0.0	0.0	-56.156	176.541	840.002	374.608
0.250	607.305	0.0	0.0	15.937	71.151	694.394	520.217
0.500	607.305	0.0	0.0	88.031	-34.239	729.575	485.035
0.750	607.305	0.0	0.0	160.124	-139.630	907.059	307.551
1.000	607.305	0.0	0.0	232.217	-245.020	1084.545	130.068

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						
0.0 FR	40.664	0.0	0.0	-83.477	-13.068	137.209	-55.882
0.250	40.664	0.0	0.0	-24.023	-31.523	96.210	-14.882
0.500	40.664	0.0	0.0	35.432	-49.979	126.075	-44.747
0.750	40.664	0.0	0.0	94.887	-68.434	203.985	-122.657
1.000	40.664	0.0	0.0	154.342	-86.889	281.895	-200.567

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	170,906	0.0	0.0	-1,271	-68,321	240,497	101,315
0.250		170,906	0.0	0.0	0,910	-45,291	217,107	124,705
0.500		170,906	0.0	0.0	3,090	-22,261	196,258	145,554
0.750		170,906	0.0	0.0	5,271	0,768	176,945	164,867
1.000		170,906	0.0	0.0	7,451	23,798	202,155	139,657

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	13,610	0.0	0.0	-2,168	11,497	27,275	-0,055
0.250		13,610	0.0	0.0	0,183	8,439	22,232	4,989
0.500		13,610	0.0	0.0	2,533	5,381	21,524	5,696
0.750		13,610	0.0	0.0	4,884	2,323	20,817	6,403
1.000		13,610	0.0	0.0	7,235	-0,755	21,579	5,641

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	2,506	0.0	0.0	-44,467	-19,634	66,608	-61,596
0.250		2,506	0.0	0.0	-34,069	-16,429	55,004	-47,992
0.500		2,506	0.0	0.0	-23,671	-13,223	39,400	-34,388
0.750		2,506	0.0	0.0	-13,273	-10,017	25,796	-20,784
1.000		2,506	0.0	0.0	-2,875	-6,811	12,192	-7,180

MEMBER 187

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-341,944	0.0	0.0	28,708	14,953	-298,285	-385,605
0.250		-341,944	0.0	0.0	19,866	4,764	-317,313	-366,574
0.500		-341,944	0.0	0.0	11,024	-5,424	-325,496	-358,392
0.750		-341,944	0.0	0.0	2,182	-15,613	-324,149	-359,739
1.000		-341,944	0.0	0.0	-6,660	-25,801	-309,485	-374,405

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	508,180	0.0	0.0	-74,993	-31,377	614,550	401,810
0.250		508,180	0.0	0.0	-48,526	-25,151	581,857	434,503
0.500		508,180	0.0	0.0	-22,059	-18,926	549,165	467,195
0.750		508,180	0.0	0.0	4,408	-12,701	525,269	491,071
1.000		508,180	0.0	0.0	30,875	-6,475	545,531	470,830

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	164,614	0.0	0.0	25,255	-5,721	193,591	135,637
0.250		164,614	0.0	0.0	12,679	-4,781	182,075	147,154
0.500		164,614	0.0	0.0	0,102	-5,840	170,556	158,671
0.750		164,614	0.0	0.0	-12,475	-6,900	185,988	145,239
1.000		164,614	0.0	0.0	-25,051	-7,959	197,624	131,603

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-10,235	0.0	0.0	11,667	35,236	36,668	-57,139
0.250		-10,235	0.0	0.0	9,674	28,935	28,374	-48,848
0.500		-10,235	0.0	0.0	7,682	22,633	20,080	-40,550
0.750		-10,235	0.0	0.0	5,689	16,331	11,785	-32,255
1.000		-10,235	0.0	0.0	3,697	10,029	3,491	-23,961

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
				STRESS				
0.0	FR	10.261	0.0	0.0	-9.870	8.702	28.834	-8.311
0.250		10.261	0.0	0.0	-8.478	7.358	26.077	-5.555
0.500		10.261	0.0	0.0	-7.085	5.975	23.321	-2.798
0.750		10.261	0.0	0.0	-5.692	4.611	20.565	-0.042
1.000		10.261	0.0	0.0	-4.300	3.247	17.808	2.714

MEMBER 188

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
				STRESS				
0.0	FR	-226.064	0.0	0.0	2.350	-35.883	-189.832	-262.297
0.250		-226.064	0.0	0.0	10.676	-110.376	-105.013	-347.116
0.500		-226.064	0.0	0.0	19.002	-186.868	-20.194	-431.934
0.750		-226.064	0.0	0.0	27.328	-263.361	64.624	-516.753
1.000		-226.064	0.0	0.0	35.654	-339.853	149.442	-601.571

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
				STRESS				
0.0	FR	-524.808	0.0	0.0	-67.080	14.254	-443.494	-606.123
0.250		-524.808	0.0	0.0	-50.162	-38.320	-436.326	-613.291
0.500		-524.808	0.0	0.0	-33.244	-90.875	-400.690	-648.927
0.750		-524.808	0.0	0.0	-16.326	-143.429	-365.053	-684.563
1.000		-524.808	0.0	0.0	0.592	-195.984	-328.232	-721.384

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
				STRESS				

0.0	FR	161.729	0.0	0.0	-32.535	-1.265	195.529	127.928
0.250		161.729	0.0	0.0	-20.436	-6.581	188.746	134.711
0.500		161.729	0.0	0.0	-8.336	-11.898	181.963	141.494
0.750		161.729	0.0	0.0	3.763	-17.215	182.706	140.751
1.000		161.729	0.0	0.0	15.863	-22.531	200.123	123.355

LOADING 8 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-4.795	0.0	0.0	-15.085	34.923	45.213	-54.804
0.250		-4.795	0.0	0.0	-12.807	26.869	34.880	-44.471
0.500		-4.795	0.0	0.0	-10.528	18.815	24.547	-34.138
0.750		-4.795	0.0	0.0	-8.249	10.760	14.214	-23.805
1.000		-4.795	0.0	0.0	-5.971	2.706	3.881	-13.472

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-14.275	0.0	0.0	-45.854	2.899	34.478	-63.028
0.250		-14.275	0.0	0.0	-38.060	1.995	25.781	-54.331
0.500		-14.275	0.0	0.0	-30.267	1.091	17.084	-45.633
0.750		-14.275	0.0	0.0	-22.474	0.187	8.386	-36.936
1.000		-14.275	0.0	0.0	-14.681	-0.717	1.123	-29.672

MEMBER 189

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-359.013	0.0	0.0	-15.201	-34.602	-309.209	-408.817
0.250		-359.013	0.0	0.0	-14.834	-26.375	-317.804	-400.222
0.500		-359.013	0.0	0.0	-14.467	-18.147	-326.399	-391.627
0.750		-359.013	0.0	0.0	-14.100	-9.919	-334.994	-383.032

1.000	-359.015	0.0	0.0	-15.733	-1.692	-343.589	-374.438

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	532.008	0.0	0.0	44.325	2.932	579.264	484.750
0.250		532.008	0.0	0.0	38.537	5.775	576.320	487.695
0.500		532.008	0.0	0.0	32.750	8.618	573.375	490.640
0.750		532.008	0.0	0.0	26.963	11.460	570.430	493.584
1.000		532.008	0.0	0.0	21.176	14.303	567.486	496.529

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	119.900	0.0	0.0	-11.283	-57.749	188.932	50.868
0.250		119.900	0.0	0.0	-9.614	-42.057	171.571	68.229
0.500		119.900	0.0	0.0	-7.945	-26.365	154.210	85.590
0.750		119.900	0.0	0.0	-6.277	-10.673	136.849	102.951
1.000		119.900	0.0	0.0	-4.608	5.019	129.527	110.273

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-9.753	0.0	0.0	4.039	11.509	5.795	-25.301
0.250		-9.753	0.0	0.0	3.192	7.806	1.246	-20.752
0.500		-9.753	0.0	0.0	2.346	4.103	-3.304	-16.202
0.750		-9.753	0.0	0.0	1.500	0.401	-7.853	-11.655
1.000		-9.753	0.0	0.0	0.653	-3.302	-5.798	-13.709

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM STAR		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	10.681	0.0	0.0	-4.334	3.719	18.734	2.628
0.250		10.681	0.0	0.0	-3.816	2.949	17.446	3.916

0,500	10,681	0,0	0,0	-3,298	2,179	16,158	5,204
0,750	10,681	0,0	0,0	-2,781	1,409	14,870	6,491
1,000	10,681	0,0	0,0	-2,263	0,639	13,583	7,779

MEMBER 190

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	-240,104	0,0	0,0	44,336	-359,824	164,055	-644,264
0,250		-240,104	0,0	0,0	44,952	-391,292	196,140	-676,348
0,500		-240,104	0,0	0,0	45,569	-422,761	228,225	-708,433
0,750		-240,104	0,0	0,0	46,185	-454,229	260,310	-740,518
1,000		-240,104	0,0	0,0	46,802	-485,697	292,394	-772,603

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	-551,451	0,0	0,0	13,520	-216,255	-321,677	-781,226
0,250		-551,451	0,0	0,0	6,336	-246,383	-298,752	-804,171
0,500		-551,451	0,0	0,0	-0,847	-276,512	-274,093	-828,810
0,750		-551,451	0,0	0,0	-8,031	-306,641	-236,780	-866,123
1,000		-551,451	0,0	0,0	-15,214	-336,770	-199,468	-903,435

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	117,101	0,0	0,0	1,784	-72,704	191,589	42,612
0,250		117,101	0,0	0,0	-0,358	-59,624	177,082	57,119
0,500		117,101	0,0	0,0	-2,499	-46,544	166,144	68,057
0,750		117,101	0,0	0,0	-4,641	-33,464	155,206	78,995
1,000		117,101	0,0	0,0	-6,783	-20,384	144,268	89,934

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.009	0.0	0.0	-0.156	0.020	0.167	-0.184
0.250		-0.009	0.0	0.0	-0.105	0.145	0.242	-0.259
0.500		-0.009	0.0	0.0	-0.054	0.271	0.316	-0.334
0.750		-0.009	0.0	0.0	-0.003	0.397	0.391	-0.408
1.000		-0.009	0.0	0.0	0.048	0.522	0.562	-0.579

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	7.935	0.0	0.0	-0.867	0.622	9.424	6.445
0.250		7.935	0.0	0.0	-0.301	0.309	8.545	7.324
0.500		7.935	0.0	0.0	0.265	-0.004	8.203	7.666
0.750		7.935	0.0	0.0	0.831	-0.317	9.085	6.787
1.000		7.935	0.0	0.0	1.397	-0.630	9.962	5.908

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LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-674.314	0.0	0.0	-112.799	256.548	-324.967	-1023.661
0.250		-674.314	0.0	0.0	-62.893	131.239	-480.182	-868.446
0.500		-674.314	0.0	0.0	-12.987	25.930	-635.396	-713.231
0.750		-674.314	0.0	0.0	36.919	-79.379	-558.016	-790.611
1.000		-674.314	0.0	0.0	86.825	-184.688	-402.801	-945.826

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-384.426	0.0	0.0	-52.652	143.850	-187.924	-580.928

-344,420	0.0	0.0	-21,927	82,646	-279,853	-488,999
-344,420	0.0	0.0	8,797	21,441	-354,187	-418,665
-344,420	0.0	0.0	39,522	-39,763	-305,140	-463,711
-344,420	0.0	0.0	70,247	-100,967	-215,211	-555,640

GRAVITY AND BUOYANCY

STRESS

		0.0	4,796	-4,100	-7,449	-25,242
		0.0	3,724	-5,039	-7,583	-25,108
		0.0	2,652	-5,977	-7,716	-24,975
		0.0	1,579	-6,916	-7,850	-24,841
		0.0	0,507	-7,855	-7,984	-24,707

[illegible] ACS -- VIBRATING IN Y-DIRECTION

STRESS

			[illegible]	4,191	-4,989	-15,305
			[illegible]	2,427	-7,156	-13,139
			[illegible]	0,663	-9,323	-10,971
			[illegible]	-1,101	-8,[illegible]	-11,490
			[illegible]	-2,865	-8,637	-13,657

[illegible] ACS -- VIBRATING IN X-DIRECTION

STRESS

			-1,371	0,929	-3,653	-8,253
			-3,655	0,392	-4,607	-7,299
			-5,938	-0,146	-5,269	-6,637
			-8,121	-0,683	-5,148	-6,758
		0.0	0,295	-1,221	-4,457	-7,469

[illegible] 139

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	544.879	0.0	0.0	-16.274	184.497	745.649	344.108
0.250		544.879	0.0	0.0	-24.029	98.036	666.943	422.814
0.500		544.879	0.0	0.0	-31.783	11.575	588.237	501.521
0.750		544.879	0.0	0.0	-39.537	-74.886	659.302	430.456
1.000		544.879	0.0	0.0	-47.292	-161.347	753.517	336.240

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-260.740	0.0	0.0	-78.536	43.217	-138.987	-382.493
0.250		-260.740	0.0	0.0	-38.555	27.953	-194.232	-327.248
0.500		-260.740	0.0	0.0	1.427	12.690	-246.623	-274.856
0.750		-260.740	0.0	0.0	41.408	-2.575	-216.759	-304.721
1.000		-260.740	0.0	0.0	81.390	-17.837	-161.514	-359.966

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	4.947	0.0	0.0	7.442	8.787	21.176	-11.282
0.250		4.947	0.0	0.0	6.806	5.519	17.272	-7.379
0.500		4.947	0.0	0.0	6.171	2.251	13.369	-3.475
0.750		4.947	0.0	0.0	5.535	-1.016	11.498	-1.605
1.000		4.947	0.0	0.0	4.900	-4.284	14.131	-4.237

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	7.798	0.0	0.0	-0.541	2.754	11.094	4.503
0.250		7.798	0.0	0.0	-0.599	1.702	10.099	5.497
0.500		7.798	0.0	0.0	-0.656	0.651	9.105	6.491

0.750	7.798	0.0	0.0	-0.714	-0.401	8.913	6.683
1.000	7.798	0.0	0.0	-0.771	-1.453	10.023	5.574

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-3.280	0.0	0.0	-2.226	2.560	1.506	-8.067
0.250		-3.280	0.0	0.0	-1.339	1.708	-0.233	-6.328
0.500		-3.280	0.0	0.0	-0.452	0.856	-1.972	-4.588
0.750		-3.280	0.0	0.0	0.435	0.005	-2.842	-3.719
1.000		-3.280	0.0	0.0	1.322	-0.849	-1.109	-5.451

MEMBER 136

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-50.641	0.0	0.0	3.256	-80.425	33.040	-134.322
0.250		-50.641	0.0	0.0	-3.043	-56.615	9.017	-110.299
0.500		-50.641	0.0	0.0	-9.342	-32.804	-8.495	-92.787
0.750		-50.641	0.0	0.0	-15.640	-8.994	-26.007	-75.276
1.000		-50.641	0.0	0.0	-21.939	14.816	-13.886	-87.396

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-289.036	0.0	0.0	-188.023	-4.449	-96.564	-481.508
0.250		-289.036	0.0	0.0	-137.900	-12.448	-138.688	-439.384
0.500		-289.036	0.0	0.0	-87.776	-20.447	-180.813	-397.260
0.750		-289.036	0.0	0.0	-37.653	-28.446	-222.937	-355.135
1.000		-289.036	0.0	0.0	12.471	-36.446	-240.119	-337.953

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-87,107	0.0	0.0	647,773	-5,557	566,223	-740,438
0.250		-87,107	0.0	0.0	3[illegible]9,248	-2,186	234,326	-408,541
0.500		-87,107	0.0	0.0	-9,277	1,186	-76,645	-97,570
0.750		-87,107	0.0	0.0	-337,802	4,557	255,251	-429,466
1.000		-87,107	0.0	0.0	-666,327	7,928	587,148	-761,363

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-2,262	0.0	0.0	-0,045	0,454	-1,763	-2,761
0.250		-2,262	0.0	0.0	-0,068	0,213	-1,980	-2,544
0.500		-2,262	0.0	0.0	-0,091	-0,027	-2,144	-2,381
0.750		-2,262	0.0	0.0	-0,115	-0,268	-1,880	-2,644
1.000		-2,262	0.0	0.0	-0,138	-0,508	-1,616	-2,908

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-4,326	0.0	0.0	-2,109	0,785	-1,432	-7,220
0.250		-4,326	0.0	0.0	-1,553	0,477	-2,296	-6,356
0.500		-4,326	0.0	0.0	-0,998	0,168	-3,160	-5,493
0.750		-4,326	0.0	0.0	-0,443	-0,141	-3,742	-4,910
1.000		-4,326	0.0	0.0	0,112	-0,449	-3,765	-4,887

MEMBER 137

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-4.408	0.0	0.0	-0.092	-0.290	-4.027	-4.790
0.250		-4.408	0.0	0.0	0.425	-0.356	-3.627	-5.189
0.500		-4.408	0.0	0.0	0.941	-0.422	-3.045	-5.771
0.750		-4.408	0.0	0.0	1.457	-0.488	-2.463	-6.354
1.000		-4.408	0.0	0.0	1.974	-0.554	-1.880	-6.936

MEMBER 138

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	372.007	0.0	0.0	-143.599	65.426	581.032	162.982
0.250		372.007	0.0	0.0	-106.933	36.786	515.727	228.287
0.500		372.007	0.0	0.0	-70.268	8.146	450.422	293.592
0.750		372.007	0.0	0.0	-33.603	-20.494	426.104	317.910
1.000		372.007	0.0	0.0	3.062	-49.134	424.203	319.812

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	146.099	0.0	0.0	-79.616	63.704	289.419	2.779
0.250		146.099	0.0	0.0	-53.759	39.573	239.431	52.767
0.500		146.099	0.0	0.0	-27.903	15.441	189.444	102.755
0.750		146.099	0.0	0.0	-2.047	-8.690	156.836	135.362
1.000		146.099	0.0	0.0	23.809	-32.821	202.730	89.469

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-48,238	0.0	0.0	-23,283	-29,527	4,571	-101,048
0.250		-48,238	0.0	0.0	-16,585	-4,193	-27,460	-69,016
0.500		-48,238	0.0	0.0	-9,887	21,140	-17,211	-79,266
0.750		-48,238	0.0	0.0	-3,189	46,474	1,425	-97,902
1.000		-48,238	0.0	0.0	3,509	71,807	27,078	-125,554

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-277,269	0.0	0.0	-9,193	-50,852	-217,224	-337,313
0.250		-277,269	0.0	0.0	39,431	-21,296	-216,541	-337,996
0.500		-277,269	0.0	0.0	88,055	8,260	-180,953	-373,584
0.750		-277,269	0.0	0.0	136,679	37,816	-102,773	-451,764
1.000		-277,269	0.0	0.0	185,303	67,372	-24,593	-529,944

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-87,101	0.0	0.0	-667,084	9,575	589,559	-763,761
0.250		-87,101	0.0	0.0	-336,732	3,578	253,208	-427,411
0.500		-87,101	0.0	0.0	-6,380	-2,420	-78,302	-95,901
0.750		-87,101	0.0	0.0	323,973	-8,418	245,289	-419,492
1.000		-87,101	0.0	0.0	654,325	-14,415	581,639	-755,842

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-2,241	0.0	0.0	-0,170	-1,056	-1,016	-3,467
0.250		-2,241	0.0	0.0	-0,055	-0,258	-1,928	-2,555
0.500		-2,241	0.0	0.0	0,059	0,540	-1,643	-2,840
0.750		-2,241	0.0	0.0	0,173	1,338	-0,731	-3,752
1.000		-2,241	0.0	0.0	0,287	2,135	0,182	-4,664

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

0.0	FR	-78.199	0.0	0.0	-650.360	1.820	573.981	-730.379
0.250		-78.199	0.0	0.0	-321.243	-0.470	243.514	-399.913
0.500		-78.199	0.0	0.0	7.875	-2.761	-67.566	-88.833
0.750		-78.199	0.0	0.0	336.989	-5.051	263.841	-420.240
1.000		-78.199	0.0	0.0	666.106	-7.342	595.288	-751.647

LOADING 6 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	4.694	0.0	0.0	-1.467	2.042	8.203	1.184
0.250		4.694	0.0	0.0	-1.092	1.258	7.043	2.344
0.500		4.694	0.0	0.0	-0.717	0.473	5.884	3.503
0.750		4.694	0.0	0.0	-0.342	-0.311	5.346	4.041
1.000		4.694	0.0	0.0	0.033	-1.095	5.822	3.565

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.454	0.0	0.0	-0.827	-0.730	2.011	-1.104
0.250		0.454	0.0	0.0	-0.581	-0.431	1.466	-0.559
0.500		0.454	0.0	0.0	-0.334	-0.132	0.920	-0.013
0.750		0.454	0.0	0.0	-0.088	0.167	0.708	0.199
1.000		0.454	0.0	0.0	0.159	0.466	1.078	-0.171

MEMBER 139

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	361.053	0.0	0.0	-16.271	-33.306	410.631	311.476
0.250		361.053	0.0	0.0	27.009	-32.225	420.288	301.819
0.500		361.053	0.0	0.0	70.289	-31.144	462.487	259.620
0.750		361.053	0.0	0.0	113.569	-30.063	504.686	217.421

1.000	301.053	0.0	0.0	156.850	-28.983	546.886	175.221

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START	AXIAL STRESS	Y SHEAR STRESS	Z SHEAR STRESS	Y BENDING STRESS	Z BENDING STRESS	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0 FR	141.561	0.0	0.0	15.695	-4.116	161.372	121.750
0.250	141.561	0.0	0.0	28.165	-11.029	180.756	102.367
0.500	141.561	0.0	0.0	40.635	-17.942	200.139	82.984
0.750	141.561	0.0	0.0	53.105	-24.855	219.522	63.601
1.000	141.561	0.0	0.0	65.575	-31.769	238.905	44.218

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START	AXIAL STRESS	Y SHEAR STRESS	Z SHEAR STRESS	Y BENDING STRESS	Z BENDING STRESS	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0 FR	-78.324	0.0	0.0	666.558	-9.726	597.960	-754.608
0.250	-78.324	0.0	0.0	537.149	-3.826	262.651	-419.299
0.500	-78.324	0.0	0.0	7.740	2.074	-68.511	-88.138
0.750	-78.324	0.0	0.0	-321.669	7.973	251.518	-407.967
1.000	-78.324	0.0	0.0	-651.079	13.873	586.627	-743.276

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START	AXIAL STRESS	Y SHEAR STRESS	Z SHEAR STRESS	Y BENDING STRESS	Z BENDING STRESS	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0 FR	4.742	0.0	0.0	-0.132	-0.685	5.559	3.925
0.250	4.742	0.0	0.0	0.302	-0.639	5.684	3.801
0.500	4.742	0.0	0.0	0.737	-0.593	6.073	3.412
0.750	4.742	0.0	0.0	1.172	-0.548	6.461	3.023
1.000	4.742	0.0	0.0	1.606	-0.502	6.850	2.634

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START	AXIAL STRESS	Y SHEAR STRESS	Z SHEAR STRESS	Y BENDING STRESS	Z BENDING STRESS	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0 FR	0.513	0.0	0.0	0.082	0.937	1.532	-0.506
0.250	0.513	0.0	0.0	0.164	0.025	0.702	0.325

0.500	0.513	0.0	0.0	0.246	-0.888	1.647	-0.620
0.750	0.513	0.0	0.0	0.328	-1.800	2.641	-1.614
1.000	0.513	0.0	0.0	0.410	-2.713	3.636	-2.609

MEMBER 140

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-245.821	0.0	0.0	137.212	-82.698	-25.911	-465.731
0.250	-245.821	0.0	0.0	104.375	-50.357	-91.109	-400.533
0.500	-245.821	0.0	0.0	71.538	-17.977	-156.307	-335.335
0.750	-245.821	0.0	0.0	38.700	14.384	-192.737	-298.906
1.000	-245.821	0.0	0.0	5.863	46.745	-193.213	-298.429

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	166.714	0.0	0.0	-107.847	-4.164	278.725	54.703
0.250	166.714	0.0	0.0	-74.835	-8.871	250.421	83.008
0.500	166.714	0.0	0.0	-41.823	-13.578	222.116	111.313
0.750	166.714	0.0	0.0	-8.811	-18.285	193.811	139.617
1.000	166.714	0.0	0.0	24.200	-22.992	213.907	119.522

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-88.946	0.0	0.0	656.184	10.589	577.827	-755.719
0.250	-88.946	0.0	0.0	325.439	6.002	242.496	-420.387
0.500	-88.946	0.0	0.0	-5.306	1.416	-82.224	-95.667
0.750	-88.946	0.0	0.0	-336.051	-3.170	250.275	-428.167
1.000	-88.946	0.0	0.0	-666.796	-7.757	585.606	-763.498

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-3.893	0.0	0.0	1.301	0.517	-2.076	-5.711
0.250		-3.893	0.0	0.0	0.994	0.378	-2.521	-5.265
0.500		-3.893	0.0	0.0	0.687	0.240	-2.967	-4.820
0.750		-3.893	0.0	0.0	0.380	0.101	-3.412	-4.374
1.000		-3.893	0.0	0.0	0.073	-0.037	-3.783	-4.003

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	1.812	0.0	0.0	-1.318	1.267	4.397	-0.773
0.250		1.812	0.0	0.0	-0.929	0.651	3.392	0.232
0.500		1.812	0.0	0.0	-0.541	0.034	2.387	1.237
0.750		1.812	0.0	0.0	-0.152	-0.583	2.547	1.077
1.000		1.812	0.0	0.0	0.236	-1.199	3.248	0.376

MEMBER 141

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-256.017	0.0	0.0	20.632	33.557	-201.828	-310.206
0.250		-256.017	0.0	0.0	-18.610	31.433	-205.974	-306.060
0.500		-256.017	0.0	0.0	-57.852	29.309	-168.857	-343.178
0.750		-256.017	0.0	0.0	-97.094	27.184	-131.739	-380.296
1.000		-256.017	0.0	0.0	-136.336	25.060	-94.621	-417.413

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	174.499	0.0	0.0	13.564	-21.522	209.386	139.613
0.250		174.499	0.0	0.0	50.492	-8.814	217.805	131.193
0.500		174.499	0.0	0.0	55.620	3.894	234.013	114.985
0.750		174.499	0.0	0.0	76.747	16.602	267.849	81.149
1.000		174.499	0.0	0.0	97.875	29.311	301.685	47.313

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-88.927	0.0	0.0	-665.798	-5.619	582.489	-760.343
0.250		-88.927	0.0	0.0	-538.052	-5.791	252.916	-430.769
0.500		-88.927	0.0	0.0	-10.306	-1.963	-76.658	-101.196
0.750		-88.927	0.0	0.0	317.440	-0.136	228.648	-406.502
1.000		-88.927	0.0	0.0	645.186	1.692	557.951	-735.804

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-3.845	0.0	0.0	0.194	-0.012	-3.639	-4.051
0.250		-3.845	0.0	0.0	-0.191	0.191	-3.463	-4.226
0.500		-3.845	0.0	0.0	-0.576	0.393	-2.876	-4.814
0.750		-3.845	0.0	0.0	-0.961	0.595	-2.289	-5.401
1.000		-3.845	0.0	0.0	-1.346	0.797	-1.702	-5.988

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	1.780	0.0	0.0	0.149	-1.337	5.266	0.293
0.250		1.780	0.0	0.0	0.412	-0.303	2.495	1.065
0.500		1.780	0.0	0.0	0.675	0.732	3.187	0.373
0.750		1.780	0.0	0.0	0.938	1.767	4.484	-0.925
1.000		1.780	0.0	0.0	1.201	2.801	5.782	-2.222

MEMBER 142

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-3.544	0.0	0.0	-45.571	-48.682	90.710	-97.797
0.250		-3.544	0.0	0.0	-30.715	-30.111	57.282	-64.369
0.500		-3.544	0.0	0.0	-15.858	-11.539	23.654	-30.941
0.750		-3.544	0.0	0.0	-1.001	7.032	4.490	-11.577
1.000		-3.544	0.0	0.0	13.856	25.603	35.915	-43.003

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	12.787	0.0	0.0	23.131	-4.533	40.451	-14.877
0.250		12.787	0.0	0.0	30.193	-4.940	47.920	-22.346
0.500		12.787	0.0	0.0	37.256	-5.346	55.389	-29.815
0.750		12.787	0.0	0.0	44.318	-5.753	62.859	-37.284
1.000		12.787	0.0	0.0	51.380	-6.160	70.328	-44.754

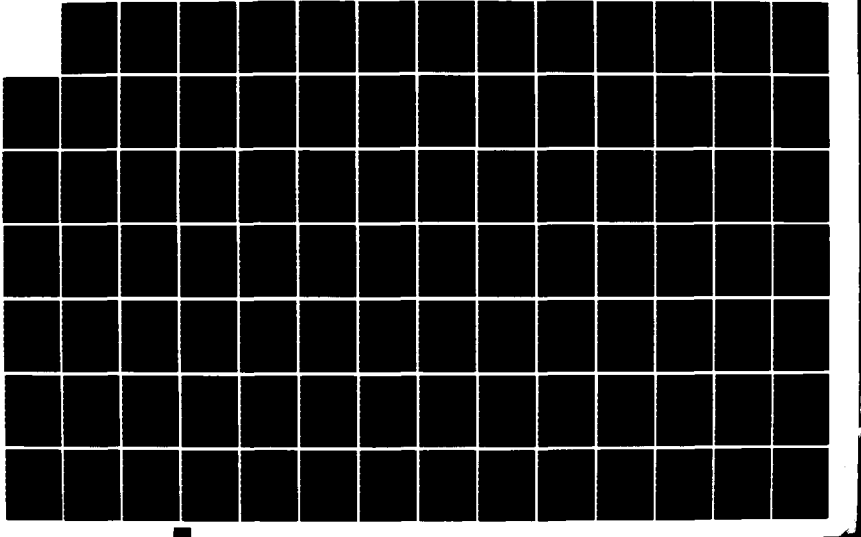
LOADING 3 GRAVITY AND BUOYANCY

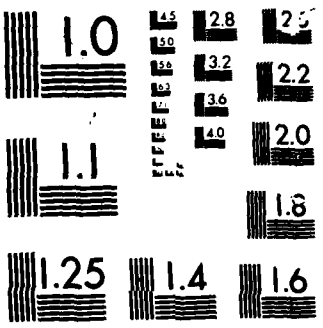
DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.397	0.0	0.0	3.779	1.711	5.094	-5.888
0.250		-0.397	0.0	0.0	3.599	0.766	3.968	-4.762
0.500		-0.397	0.0	0.0	3.418	-0.179	3.200	-3.994
0.750		-0.397	0.0	0.0	3.237	-1.124	3.965	-4.758
1.000		-0.397	0.0	0.0	3.057	-2.069	4.729	-5.523

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

AD-A165 616 NATURAL FREQUENCY AND EARTHQUAKE ANALYSIS EAST COAST 6/7
AIR COMBAT MANEUVERI..(U) CREST ENGINEERING INC TULSA
OK SEP 76 27-771-99 CHES/NAVFAC-FPO-7611
UNCLASSIFIED N62477-76-C-0179 F/G 13/13 NL





MICROCOPY RESOLUTION TEST CHART

0.0	FR	0.069	0.0	0.0	-0.446	-0.435	0.949	-0.811
0.250		0.069	0.0	0.0	-0.286	-0.321	0.676	-0.537
0.500		0.069	0.0	0.0	-0.126	-0.208	0.403	-0.264
0.750		0.069	0.0	0.0	0.034	-0.094	0.197	-0.059
1.000		0.069	0.0	0.0	0.194	0.020	0.283	-0.144

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.130	0.0	0.0	0.246	0.299	0.415	-0.675
0.250		-0.130	0.0	0.0	0.302	0.202	0.375	-0.633
0.500		-0.130	0.0	0.0	0.357	0.104	0.332	-0.591
0.750		-0.130	0.0	0.0	0.413	0.007	0.290	-0.550
1.000		-0.130	0.0	0.0	0.469	-0.091	0.429	-0.689

MEMBER 145

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-9.125	0.0	0.0	48.990	48.771	88.636	-106.886
0.250		-9.125	0.0	0.0	35.290	29.441	55.606	-73.856
0.500		-9.125	0.0	0.0	21.591	10.111	22.576	-40.827
0.750		-9.125	0.0	0.0	7.891	-9.219	7.984	-26.234
1.000		-9.125	0.0	0.0	-5.809	-28.549	25.233	-43.483

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-9.333	0.0	0.0	13.316	27.129	31.112	-49.777
0.250		-9.333	0.0	0.0	25.673	10.772	25.112	-45.778
0.500		-9.333	0.0	0.0	34.031	-5.585	30.285	-48.948

0.750	-0.333	0.0	0.0	44.388	-21.941	56.997	-75.662
1.000	-0.333	0.0	0.0	58.745	-38.298	83.711	-102.376

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-0.559	0.0	0.0	-1.952	-1.909	3.302	-4.420
0.250	-0.559	0.0	0.0	-2.645	-0.822	2.908	-4.026
0.500	-0.559	0.0	0.0	-3.337	0.265	3.043	-4.161
0.750	-0.559	0.0	0.0	-4.030	1.352	4.823	-5.940
1.000	-0.559	0.0	0.0	-4.722	2.439	6.602	-7.720

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	0.031	0.0	0.0	0.512	0.770	1.315	-1.250
0.250	0.031	0.0	0.0	0.370	0.411	0.812	-0.750
0.500	0.031	0.0	0.0	0.228	0.052	0.311	-0.249
0.750	0.031	0.0	0.0	0.087	-0.308	0.425	-0.363
1.000	0.031	0.0	0.0	-0.055	-0.667	0.753	-0.690

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	0.150	0.0	0.0	0.062	-0.051	0.263	0.038
0.250	0.150	0.0	0.0	0.203	-0.138	0.491	-0.190
0.500	0.150	0.0	0.0	0.344	-0.225	0.719	-0.419
0.750	0.150	0.0	0.0	0.484	-0.313	0.948	-0.647
1.000	0.150	0.0	0.0	0.625	-0.400	1.176	-0.875

MEMBER 144

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	12,436	0.0	0.0	-37,187	3,580	52,963	-28,090
0.250		12,436	0.0	0.0	-37,955	0,976	51,367	-26,495
0.500		12,436	0.0	0.0	-38,764	-1,428	52,628	-27,756
0.750		12,436	0.0	0.0	-39,572	-3,832	55,840	-30,968
1.000		12,436	0.0	0.0	-40,381	-6,236	59,052	-34,180

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-3,249	0.0	0.0	-34,608	2,930	34,289	-40,786
0.250		-3,249	0.0	0.0	-15,534	-3,999	16,284	-22,782
0.500		-3,249	0.0	0.0	3,541	-10,929	11,221	-17,718
0.750		-3,249	0.0	0.0	22,615	-17,858	37,224	-43,722
1.000		-3,249	0.0	0.0	41,689	-24,788	63,228	-69,725

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0,301	0.0	0.0	-5,275	-2,629	7,603	-8,206
0.250		-0,301	0.0	0.0	-4,801	-1,272	5,772	-6,374
0.500		-0,301	0.0	0.0	-4,327	0,086	4,111	-4,714
0.750		-0,301	0.0	0.0	-3,853	1,443	4,995	-5,597
1.000		-0,301	0.0	0.0	-3,379	2,801	5,878	-6,481

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0,107	0.0	0.0	-0,363	-0,076	0,532	-0,547
0.250		-0,107	0.0	0.0	-0,552	-0,116	0,361	-0,575
0.500		-0,107	0.0	0.0	-0,341	-0,156	0,389	-0,606
0.750		-0,107	0.0	0.0	-0,330	-0,196	0,418	-0,633
1.000		-0,107	0.0	0.0	-0,318	-0,236	0,447	-0,661

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.030	0.0	0.0	-0.389	0.594	0.752	-0.813
0.250		-0.030	0.0	0.0	-0.168	0.136	0.274	-0.335
0.500		-0.030	0.0	0.0	0.055	-0.121	0.144	-0.204
0.750		-0.030	0.0	0.0	0.273	-0.379	0.622	-0.682
1.000		-0.030	0.0	0.0	0.494	-0.636	1.100	-1.161

MEMBER 185

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-136.429	0.0	0.0	0.204	-0.458	-135.867	-136.990
0.250		-136.429	0.0	0.0	0.137	-0.355	-135.937	-136.920
0.500		-136.429	0.0	0.0	0.070	-0.352	-136.007	-136.850
0.750		-136.429	0.0	0.0	0.005	-0.349	-136.077	-136.780
1.000		-136.429	0.0	0.0	-0.064	-0.345	-136.019	-136.838

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	268.039	0.0	0.0	-0.567	-0.193	268.800	267.279
0.250		268.039	0.0	0.0	-0.436	-0.199	268.674	267.404
0.500		268.039	0.0	0.0	-0.304	-0.205	268.549	267.530
0.750		268.039	0.0	0.0	-0.172	-0.212	268.423	267.656
1.000		268.039	0.0	0.0	-0.041	-0.218	268.297	267.781

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-88.555	0.0	0.0	0.416	-0.025	-88.116	-88.995
0.250		-88.555	0.0	0.0	0.312	-0.018	-88.225	-88.885
0.500		-88.555	0.0	0.0	0.208	-0.013	-88.334	-88.776
0.750		-88.555	0.0	0.0	0.104	-0.008	-88.443	-88.667
1.000		-88.555	0.0	0.0	-0.001	-0.003	-88.551	-88.559

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-2.054	0.0	0.0	0.004	-0.001	-2.049	-2.059
0.250		-2.054	0.0	0.0	0.003	-0.001	-2.050	-2.058
0.500		-2.054	0.0	0.0	0.002	-0.001	-2.051	-2.057
0.750		-2.054	0.0	0.0	0.001	-0.001	-2.052	-2.056
1.000		-2.054	0.0	0.0	-0.000	-0.001	-2.053	-2.055

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	2.187	0.0	0.0	-0.004	-0.000	2.191	2.182
0.250		2.187	0.0	0.0	-0.003	-0.000	2.190	2.183
0.500		2.187	0.0	0.0	-0.002	-0.000	2.189	2.184
0.750		2.187	0.0	0.0	-0.001	-0.000	2.188	2.185
1.000		2.187	0.0	0.0	-0.000	-0.000	2.187	2.186

MEMBER 186

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						

0.0	FR	136.430	0.0	0.0	0.0	0.0	136.430	136.430
0.250		136.430	0.0	0.0	0.0	0.0	136.430	136.430
0.500		136.430	0.0	0.0	0.0	0.0	136.430	136.430
0.750		136.430	0.0	0.0	0.0	0.0	136.430	136.430
1.000		136.430	0.0	0.0	0.0	0.0	136.430	136.430

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-268.042	0.0	0.0	0.0	0.0	-268.042	-268.042
0.250		-268.042	0.0	0.0	0.0	0.0	-268.042	-268.042
0.500		-268.042	0.0	0.0	0.0	0.0	-268.042	-268.042
0.750		-268.042	0.0	0.0	0.0	0.0	-268.042	-268.042
1.000		-268.042	0.0	0.0	0.0	0.0	-268.042	-268.042

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	88.477	0.0	0.0	0.0	0.0	88.477	88.477
0.250		88.477	0.0	0.0	0.0	0.0	88.477	88.477
0.500		88.477	0.0	0.0	0.0	0.0	88.477	88.477
0.750		88.477	0.0	0.0	0.0	0.0	88.477	88.477
1.000		88.477	0.0	0.0	0.0	0.0	88.477	88.477

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	2.054	0.0	0.0	0.0	0.0	2.054	2.054
0.250		2.054	0.0	0.0	0.0	0.0	2.054	2.054
0.500		2.054	0.0	0.0	0.0	0.0	2.054	2.054
0.750		2.054	0.0	0.0	0.0	0.0	2.054	2.054
1.000		2.054	0.0	0.0	0.0	0.0	2.054	2.054

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-2.187	0.0	0.0	0.0	0.0	-2.187	-2.187
0.250		-2.187	0.0	0.0	0.0	0.0	-2.187	-2.187
0.500		-2.187	0.0	0.0	0.0	0.0	-2.187	-2.187
0.750		-2.187	0.0	0.0	0.0	0.0	-2.187	-2.187
1.000		-2.187	0.0	0.0	0.0	0.0	-2.187	-2.187

MEMBER 187

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-117.496	0.0	0.0	-0.159	-0.398	-116.939	-118.053
0.250		-117.496	0.0	0.0	-0.101	-0.395	-117.000	-117.992
0.500		-117.496	0.0	0.0	-0.043	-0.392	-117.060	-117.932
0.750		-117.496	0.0	0.0	0.014	-0.390	-117.092	-117.900
1.000		-117.496	0.0	0.0	0.072	-0.387	-117.037	-117.955

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-238.010	0.0	0.0	-0.496	0.130	-237.390	-238.643
0.250		-238.010	0.0	0.0	-0.379	0.130	-237.502	-238.531
0.500		-238.010	0.0	0.0	-0.262	0.141	-237.613	-238.420
0.750		-238.010	0.0	0.0	-0.145	0.147	-237.725	-238.308
1.000		-238.010	0.0	0.0	-0.028	0.152	-237.836	-238.197

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-88.651	0.0	0.0	-0.416	-0.028	-88.207	-89.094
0.250		-88.651	0.0	0.0	-0.511	-0.023	-88.317	-88.985

0,500	-88,651	0,0	0,0	-0,207	-0,018	-88,426	-88,876
0,750	-88,651	0,0	0,0	-0,103	-0,013	-88,535	-88,766
1,000	-88,651	0,0	0,0	0,002	-0,008	-88,641	-88,660

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0,0	FR	-1,965	0,0	0,0	-0,004	-0,001	-1,960	-1,970
0,250		-1,965	0,0	0,0	-0,003	-0,001	-1,961	-1,969
0,500		-1,965	0,0	0,0	-0,002	-0,001	-1,962	-1,968
0,750		-1,965	0,0	0,0	-0,001	-0,001	-1,963	-1,967
1,000		-1,965	0,0	0,0	0,000	-0,001	-1,964	-1,966

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0,0	FR	-3,142	0,0	0,0	-0,006	-0,002	-3,134	-3,149
0,250		-3,142	0,0	0,0	-0,004	-0,001	-3,136	-3,148
0,500		-3,142	0,0	0,0	-0,003	-0,001	-3,138	-3,146
0,750		-3,142	0,0	0,0	-0,001	-0,001	-3,139	-3,144
1,000		-3,142	0,0	0,0	0,000	-0,001	-3,140	-3,143

MEMBER 148

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0,0	FR	117,497	0,0	0,0	0,0	0,0	117,497	117,497
0,250		117,497	0,0	0,0	0,0	0,0	117,497	117,497
0,500		117,497	0,0	0,0	0,0	0,0	117,497	117,497
0,750		117,497	0,0	0,0	0,0	0,0	117,497	117,497
1,000		117,497	0,0	0,0	0,0	0,0	117,497	117,497

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	238.018	0.0	0.0	0.0	0.0	238.018	238.018
0.250		238.018	0.0	0.0	0.0	0.0	238.018	238.018
0.500		238.018	0.0	0.0	0.0	0.0	238.018	238.018
0.750		238.018	0.0	0.0	0.0	0.0	238.018	238.018
1.000		238.018	0.0	0.0	0.0	0.0	238.018	238.018

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	88.573	0.0	0.0	0.0	0.0	88.573	88.573
0.250		88.573	0.0	0.0	0.0	0.0	88.573	88.573
0.500		88.573	0.0	0.0	0.0	0.0	88.573	88.573
0.750		88.573	0.0	0.0	0.0	0.0	88.573	88.573
1.000		88.573	0.0	0.0	0.0	0.0	88.573	88.573

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	1.965	0.0	0.0	0.0	0.0	1.965	1.965
0.250		1.965	0.0	0.0	0.0	0.0	1.965	1.965
0.500		1.965	0.0	0.0	0.0	0.0	1.965	1.965
0.750		1.965	0.0	0.0	0.0	0.0	1.965	1.965
1.000		1.965	0.0	0.0	0.0	0.0	1.965	1.965

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	3.142	0.0	0.0	0.0	0.0	3.142	3.142
0.250		3.142	0.0	0.0	0.0	0.0	3.142	3.142
0.500		3.142	0.0	0.0	0.0	0.0	3.142	3.142
0.750		3.142	0.0	0.0	0.0	0.0	3.142	3.142

1.000	3.142	0.0	0.0	0.0	0.0	3.142	3.142

MEMBER 189

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	256.881	0.0	0.0	-0.116	-0.258	257.251	256.512
0.250		256.881	0.0	0.0	-0.116	-0.190	257.187	256.575
0.500		256.881	0.0	0.0	-0.116	-0.127	257.124	256.638
0.750		256.881	0.0	0.0	-0.116	-0.063	257.061	256.702
1.000		256.881	0.0	0.0	-0.116	-0.000	256.997	256.765

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-32.412	0.0	0.0	-0.745	0.032	-31.635	-33.189
0.250		-32.412	0.0	0.0	-0.745	0.024	-31.643	-33.181
0.500		-32.412	0.0	0.0	-0.745	0.016	-31.651	-33.173
0.750		-32.412	0.0	0.0	-0.745	0.008	-31.659	-33.165
1.000		-32.412	0.0	0.0	-0.745	-0.000	-31.667	-33.157

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-82.929	0.0	0.0	-0.002	0.203	-82.724	-83.135
0.250		-82.929	0.0	0.0	-0.002	0.153	-82.775	-83.084
0.500		-82.929	0.0	0.0	-0.002	0.102	-82.825	-83.035
0.750		-82.929	0.0	0.0	-0.002	0.051	-82.876	-82.982
1.000		-82.929	0.0	0.0	-0.002	-0.000	-82.927	-82.932

LOADING 8 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	1.457	0.0	0.0	-0.003	-0.001	1.461	1.452
0.250		1.457	0.0	0.0	-0.003	-0.001	1.461	1.453
0.500		1.457	0.0	0.0	-0.003	-0.001	1.460	1.453
0.750		1.457	0.0	0.0	-0.003	-0.000	1.460	1.454
1.000		1.457	0.0	0.0	-0.003	-0.000	1.459	1.454

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-1.701	0.0	0.0	0.001	0.002	-1.699	-1.704
0.250		-1.701	0.0	0.0	0.001	0.001	-1.699	-1.703
0.500		-1.701	0.0	0.0	0.001	0.001	-1.699	-1.703
0.750		-1.701	0.0	0.0	0.001	0.000	-1.700	-1.702
1.000		-1.701	0.0	0.0	0.001	0.000	-1.700	-1.702

MEMBER 150

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-256.883	0.0	0.0	0.0	0.0	-256.883	-256.883
0.250		-256.883	0.0	0.0	0.0	0.0	-256.883	-256.883
0.500		-256.883	0.0	0.0	0.0	0.0	-256.883	-256.883
0.750		-256.883	0.0	0.0	0.0	0.0	-256.883	-256.883
1.000		-256.883	0.0	0.0	0.0	0.0	-256.883	-256.883

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						

0.0	FR	32.412	0.0	0.0	0.0	0.0	32.412	32.412
0.250		32.412	0.0	0.0	0.0	0.0	32.412	32.412
0.500		32.412	0.0	0.0	0.0	0.0	32.412	32.412
0.750		32.412	0.0	0.0	0.0	0.0	32.412	32.412
1.000		32.412	0.0	0.0	0.0	0.0	32.412	32.412

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	82.851	0.0	0.0	0.0	0.0	82.851	82.851
0.250		82.851	0.0	0.0	0.0	0.0	82.851	82.851
0.500		82.851	0.0	0.0	0.0	0.0	82.851	82.851
0.750		82.851	0.0	0.0	0.0	0.0	82.851	82.851
1.000		82.851	0.0	0.0	0.0	0.0	82.851	82.851

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-1.457	0.0	0.0	0.0	0.0	-1.457	-1.457
0.250		-1.457	0.0	0.0	0.0	0.0	-1.457	-1.457
0.500		-1.457	0.0	0.0	0.0	0.0	-1.457	-1.457
0.750		-1.457	0.0	0.0	0.0	0.0	-1.457	-1.457
1.000		-1.457	0.0	0.0	0.0	0.0	-1.457	-1.457

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	1.701	0.0	0.0	0.0	0.0	1.701	1.701
0.250		1.701	0.0	0.0	0.0	0.0	1.701	1.701
0.500		1.701	0.0	0.0	0.0	0.0	1.701	1.701
0.750		1.701	0.0	0.0	0.0	0.0	1.701	1.701
1.000		1.701	0.0	0.0	0.0	0.0	1.701	1.701

MEMBER 151

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-5.178	0.0	0.0	-30.734	-25.616	53.172	-59.527
0.250		-5.178	0.0	0.0	-18.371	-14.045	29.238	-35.594
0.500		-5.178	0.0	0.0	-6.007	-2.475	5.305	-11.660
0.750		-5.178	0.0	0.0	6.356	9.095	12.274	-18.629
1.000		-5.178	0.0	0.0	18.720	20.665	36.207	-42.563

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	1004.358	0.0	0.0	-37.608	7.418	1049.384	959.331
0.250		1004.358	0.0	0.0	-40.487	1.832	1046.676	962.039
0.500		1004.358	0.0	0.0	-43.366	-3.755	1051.478	957.237
0.750		1004.358	0.0	0.0	-46.244	-9.342	1059.944	948.771
1.000		1004.358	0.0	0.0	-49.123	-14.928	1068.409	940.306

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-34.976	0.0	0.0	-23.645	-5.765	-5.566	-64.386
0.250		-34.976	0.0	0.0	-14.333	-3.644	-16.999	-52.954
0.500		-34.976	0.0	0.0	-5.021	-1.523	-28.432	-41.521
0.750		-34.976	0.0	0.0	4.291	0.597	-30.088	-39.865
1.000		-34.976	0.0	0.0	13.604	2.718	-18.655	-51.298

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0.103	0.0	0.0	-0.333	-0.135	0.571	-0.365

0.250	0.103	0.0	0.0	-0.187	0.017	0.307	-0.101
0.500	0.103	0.0	0.0	-0.040	0.169	0.511	-0.106
0.750	0.103	0.0	0.0	0.107	0.320	0.530	-0.524
1.000	0.103	0.0	0.0	0.253	0.472	0.828	-0.625

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE / STRESS /

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	10.650	0.0	0.0	-0.716	0.414	11.781	9.520
0.250	10.650	0.0	0.0	-0.570	0.230	11.450	9.851
0.500	10.650	0.0	0.0	-0.423	0.045	11.119	10.182
0.750	10.650	0.0	0.0	-0.277	-0.139	11.066	10.234
1.000	10.650	0.0	0.0	-0.130	-0.324	11.104	10.196

MEMBER 152

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE / STRESS /

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-5.916	0.0	0.0	23.960	41.751	59.796	-71.627
0.250	-5.916	0.0	0.0	14.961	25.180	34.225	-46.057
0.500	-5.916	0.0	0.0	5.962	8.608	8.654	-20.486
0.750	-5.916	0.0	0.0	-3.037	-7.963	5.084	-16.916
1.000	-5.916	0.0	0.0	-12.036	-24.535	30.655	-42.487

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE / STRESS /

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-1006.470	0.0	0.0	9.216	-18.065	-979.190	-1033.751
0.250	-1006.470	0.0	0.0	-16.918	-8.174	-981.378	-1031.563
0.500	-1006.470	0.0	0.0	-43.051	1.717	-961.705	-1051.238
0.750	-1006.470	0.0	0.0	-69.185	11.607	-925.678	-1087.262
1.000	-1006.470	0.0	0.0	-95.318	21.498	-889.654	-1123.287

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-39.787	0.0	0.0	19.635	-14.292	-5.861	-73.713
0.250		-39.787	0.0	0.0	11.679	-9.464	-18.644	-60.930
0.500		-39.787	0.0	0.0	3.723	-4.637	-31.427	-48.147
0.750		-39.787	0.0	0.0	-4.233	0.191	-35.364	-44.210
1.000		-39.787	0.0	0.0	-12.188	5.018	-22.581	-56.994

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.113	0.0	0.0	0.032	0.598	0.517	-0.743
0.250		-0.113	0.0	0.0	0.005	0.425	0.317	-0.543
0.500		-0.113	0.0	0.0	-0.023	0.253	0.163	-0.389
0.750		-0.113	0.0	0.0	-0.051	0.080	0.018	-0.244
1.000		-0.113	0.0	0.0	-0.078	-0.092	0.057	-0.284

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-10.680	0.0	0.0	0.162	-0.560	-9.959	-11.402
0.250		-10.680	0.0	0.0	-0.110	-0.339	-10.251	-11.130
0.500		-10.680	0.0	0.0	-0.382	-0.118	-10.180	-11.180
0.750		-10.680	0.0	0.0	-0.654	0.103	-9.924	-11.437
1.000		-10.680	0.0	0.0	-0.926	0.324	-9.451	-11.930

MEMBER 153

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-853,747	0.0	0.0	14,638	52,143	-786,965	-920,529
0.250		-853,747	0.0	0.0	1,845	43,656	-808,246	-899,248
0.500		-853,747	0.0	0.0	-10,947	35,168	-807,632	-899,862
0.750		-853,747	0.0	0.0	-23,740	26,680	-803,327	-904,167
1.000		-853,747	0.0	0.0	-36,533	18,192	-799,022	-908,472

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-483,322	0.0	0.0	18,632	-1,084	-463,606	-503,037
0.250		-483,322	0.0	0.0	4,018	5,769	-475,535	-491,108
0.500		-483,322	0.0	0.0	-10,596	8,621	-464,104	-502,539
0.750		-483,322	0.0	0.0	-25,210	15,474	-444,638	-522,005
1.000		-483,322	0.0	0.0	-39,823	18,327	-425,171	-541,472

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-48,491	0.0	0.0	16,381	-15,669	-16,441	-80,541
0.250		-48,491	0.0	0.0	9,913	-9,290	-29,288	-67,694
0.500		-48,491	0.0	0.0	3,445	-2,911	-42,136	-54,846
0.750		-48,491	0.0	0.0	-3,024	3,469	-41,999	-54,983
1.000		-48,491	0.0	0.0	-9,492	9,848	-29,151	-67,831

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-9,051	0.0	0.0	0,218	0,652	-8,181	-9,921
0.250		-9,051	0.0	0.0	0,119	0,521	-8,411	-9,690
0.500		-9,051	0.0	0.0	0,019	0,389	-8,642	-9,459
0.750		-9,051	0.0	0.0	-0,080	0,258	-8,712	-9,389
1.000		-9,051	0.0	0.0	-0,180	0,127	-8,744	-9,358

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-5.026	0.0	0.0	-0.063	-0.003	-4.960	-5.093
0.250		-5.026	0.0	0.0	-0.179	-0.007	-4.839	-5.213
0.500		-5.026	0.0	0.0	-0.295	-0.012	-4.719	-5.333
0.750		-5.026	0.0	0.0	-0.412	-0.016	-4.599	-5.454
1.000		-5.026	0.0	0.0	-0.528	-0.020	-4.479	-5.574

MEMBER 154

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	860.347	0.0	0.0	-22.114	-54.665	937.126	783.568
0.250		860.347	0.0	0.0	-25.952	-17.568	903.867	816.827
0.500		860.347	0.0	0.0	-29.790	19.529	909.666	811.029
0.750		860.347	0.0	0.0	-33.628	56.626	950.601	770.094
1.000		860.347	0.0	0.0	-37.466	93.723	991.536	729.158

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	476.995	0.0	0.0	-36.905	-35.880	549.779	404.211
0.250		476.995	0.0	0.0	-28.602	-12.618	518.215	435.775
0.500		476.995	0.0	0.0	-20.299	10.643	507.938	446.052
0.750		476.995	0.0	0.0	-11.997	33.905	522.897	431.093
1.000		476.995	0.0	0.0	-3.694	57.167	537.856	416.134

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-26.034	0.0	0.0	-1.221	23.802	-1.010	-51.057
0.250		-26.034	0.0	0.0	-0.173	15.018	-10.642	-41.225
0.500		-26.034	0.0	0.0	0.875	6.234	-18.925	-33.142
0.750		-26.034	0.0	0.0	1.923	-2.550	-21.561	-30.506
1.000		-26.034	0.0	0.0	2.971	-11.334	-11.729	-40.339

LOADING 8 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE / STRESS /

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	9.087	0.0	0.0	-0.452	-0.774	10.314	7.860
0.250		9.087	0.0	0.0	-0.372	-0.308	9.767	8.407
0.500		9.087	0.0	0.0	-0.292	0.158	9.538	8.637
0.750		9.087	0.0	0.0	-0.212	0.624	9.924	8.250
1.000		9.087	0.0	0.0	-0.132	1.091	10.310	7.864

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE / STRESS /

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	5.051	0.0	0.0	-0.686	-1.041	6.779	3.324
0.250		5.051	0.0	0.0	-0.542	-0.620	6.214	3.889
0.500		5.051	0.0	0.0	-0.399	-0.198	5.648	4.454
0.750		5.051	0.0	0.0	-0.255	0.223	5.530	4.573
1.000		5.051	0.0	0.0	-0.112	0.645	5.808	4.295

MEMBER 155

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE / STRESS /

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-853.502	0.0	0.0	-14.138	-0.780	-838.584	-868.420
0.250		-853.502	0.0	0.0	6.625	12.375	-834.501	-872.503

0.500	-855.502	0.0	0.0	27.389	25.531	-800.585	-906.422
0.750	-855.502	0.0	0.0	48.152	38.687	-766.664	-940.341
1.000	-853.502	0.0	0.0	68.915	51.842	-732.744	-974.260

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	498.442	0.0	0.0	9.348	12.088	519.878	477.010
0.250	498.442	0.0	0.0	-0.792	-0.898	500.132	496.752
0.500	498.442	0.0	0.0	-10.932	-13.881	525.254	473.630
0.750	498.442	0.0	0.0	-21.071	-26.863	546.376	450.508
1.000	496.442	0.0	0.0	-31.211	-39.845	569.499	427.385

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-51.730	0.0	0.0	-22.418	-8.174	-21.137	-82.322
0.250	-51.730	0.0	0.0	-13.843	-4.170	-33.716	-69.743
0.500	-51.730	0.0	0.0	-5.268	-0.167	-46.295	-57.165
0.750	-51.730	0.0	0.0	3.307	3.836	-48.586	-56.873
1.000	-51.730	0.0	0.0	11.882	7.840	-32.007	-71.452

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-8.980	0.0	0.0	-0.536	0.038	-8.806	-9.558
0.250	-8.980	0.0	0.0	-0.214	0.166	-8.601	-9.359
0.500	-8.980	0.0	0.0	0.109	0.294	-8.577	-9.383
0.750	-8.980	0.0	0.0	0.432	0.422	-8.127	-9.833
1.000	-8.980	0.0	0.0	0.754	0.550	-7.676	-10.284

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

0.0	FR	5.460	0.0	0.0	-0.246	0.110	5.816	5.104
0.250		5.460	0.0	0.0	-0.271	0.039	5.771	5.150
0.500		5.460	0.0	0.0	-0.296	-0.031	5.727	5.134
0.750		5.460	0.0	0.0	-0.320	-0.101	5.882	5.039
1.000		5.460	0.0	0.0	-0.345	-0.171	5.976	4.944

MEMBER 156

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	856.323	0.0	0.0	-11.923	11.357	879.604	833.042
0.250		856.323	0.0	0.0	-2.572	21.423	880.118	832.528
0.500		856.323	0.0	0.0	7.179	31.488	894.990	817.656
0.750		856.323	0.0	0.0	16.730	41.553	914.606	798.040
1.000		856.323	0.0	0.0	26.281	51.619	934.223	778.423

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-489.892	0.0	0.0	-48.051	-21.045	-420.795	-558.988
0.250		-489.892	0.0	0.0	-35.692	-18.018	-435.981	-543.802
0.500		-489.892	0.0	0.0	-23.733	-14.991	-451.167	-528.616
0.750		-489.892	0.0	0.0	-11.575	-11.964	-466.353	-513.431
1.000		-489.892	0.0	0.0	0.584	-8.937	-480.370	-499.413

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-22.886	0.0	0.0	11.495	21.148	9.753	-55.525
0.250		-22.886	0.0	0.0	6.933	13.146	-2.806	-42.966
0.500		-22.886	0.0	0.0	2.372	5.149	-15.365	-30.407
0.750		-22.886	0.0	0.0	-2.189	-2.849	-17.848	-27.924

1.000	-22,886	0.0	0.0	-6,751	-10,847	-5,289	-40,483

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	8,969	0.0	0.0	-0,072	0,285	9,327	8,612
0.250		8,969	0.0	0.0	-0,058	0,323	9,350	8,589
0.500		8,969	0.0	0.0	-0,045	0,360	9,374	8,565
0.750		8,969	0.0	0.0	-0,031	0,397	9,398	8,541
1.000		8,969	0.0	0.0	-0,018	0,434	9,421	8,518

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-5,444	0.0	0.0	-0,908	0,018	-4,519	-6,370
0.250		-5,444	0.0	0.0	-0,691	0,028	-4,725	-6,164
0.500		-5,444	0.0	0.0	-0,475	0,039	-4,930	-5,958
0.750		-5,444	0.0	0.0	-0,259	0,049	-5,136	-5,752
1.000		-5,444	0.0	0.0	-0,043	0,059	-5,342	-5,546

MEMBER 157

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	226,087	0.0	0.0	-99,179	-31,689	356,955	95,219
0.250		226,087	0.0	0.0	-58,741	-28,235	313,062	139,112
0.500		226,087	0.0	0.0	-18,303	-24,778	269,168	183,006
0.750		226,087	0.0	0.0	22,135	-21,323	269,548	182,629
1.000		226,087	0.0	0.0	62,573	-17,868	306,527	145,647

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-594,807	0.0	0.0	-255,790	-74,456	-264,561	-925,053
0.250		-594,807	0.0	0.0	-172,230	-48,270	-374,308	-815,307
0.500		-594,807	0.0	0.0	-88,670	-22,084	-484,054	-705,561
0.750		-594,807	0.0	0.0	-5,110	4,103	-585,594	-604,020
1.000		-594,807	0.0	0.0	78,450	30,289	-486,068	-703,546

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-28,428	0.0	0.0	20,720	-0,177	-7,531	-49,526
0.250		-28,428	0.0	0.0	12,196	0,472	-15,760	-41,096
0.500		-28,428	0.0	0.0	3,671	1,122	-23,635	-33,222
0.750		-28,428	0.0	0.0	-4,853	1,772	-21,803	-35,055
1.000		-28,428	0.0	0.0	-13,378	2,422	-12,629	-44,228

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	5,389	0.0	0.0	0,549	0,791	6,730	4,049
0.250		5,389	0.0	0.0	0,416	0,413	6,219	4,560
0.500		5,389	0.0	0.0	0,284	0,035	5,708	5,071
0.750		5,389	0.0	0.0	0,151	-0,343	5,885	4,895
1.000		5,389	0.0	0.0	0,018	-0,721	6,128	4,650

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-4,530	0.0	0.0	-1,810	-0,084	-2,636	-6,424
0.250		-4,530	0.0	0.0	-1,172	-0,030	-5,327	-5,733
0.500		-4,530	0.0	0.0	-0,535	0,025	-3,972	-5,088
0.750		-4,530	0.0	0.0	0,103	0,077	-4,350	-4,710
1.000		-4,530	0.0	0.0	0,740	0,131	-3,659	-5,401

MEMBER 158

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	227.148	0.0	0.0	59.887	-17.638	304.673	149.623
0.250		227.148	0.0	0.0	17.556	-9.883	254.587	199.709
0.500		227.148	0.0	0.0	-24.775	-2.129	254.052	200.243
0.750		227.148	0.0	0.0	-67.107	5.626	299.880	154.416
1.000		227.148	0.0	0.0	-109.438	13.380	349.966	104.330

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	568.907	0.0	0.0	-35.528	-20.949	625.384	512.430
0.250		568.907	0.0	0.0	32.656	-2.667	604.230	533.584
0.500		568.907	0.0	0.0	100.840	15.616	685.363	452.450
0.750		568.907	0.0	0.0	169.024	33.899	771.830	365.984
1.000		568.907	0.0	0.0	237.208	52.181	858.297	279.517

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-25.722	0.0	0.0	-12.708	3.683	-9.330	-42.114
0.250		-25.722	0.0	0.0	-4.352	0.817	-20.553	-30.891
0.500		-25.722	0.0	0.0	4.005	-2.049	-19.669	-31.775
0.750		-25.722	0.0	0.0	12.361	-4.915	-8.446	-42.998
1.000		-25.722	0.0	0.0	20.718	-7.781	2.777	-54.220

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

FROM START		AXIAL	V SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	5.496	0.0	0.0	0.037	-0.668	6.201	4.792
0.250		5.496	0.0	0.0	0.114	-0.213	5.823	5.170
0.500		5.496	0.0	0.0	0.192	0.242	5.930	5.063
0.750		5.496	0.0	0.0	0.269	0.697	6.463	4.530
1.000		5.496	0.0	0.0	0.347	1.152	6.995	3.998

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	V SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	7.687	0.0	0.0	-0.100	-0.236	8.023	7.351
0.250		7.687	0.0	0.0	0.357	-0.203	8.247	7.127
0.500		7.687	0.0	0.0	0.814	-0.170	8.671	6.703
0.750		7.687	0.0	0.0	1.271	-0.138	9.096	6.279
1.000		7.687	0.0	0.0	1.728	-0.105	9.520	5.854

MEMBER 159

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	V SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	388.331	0.0	0.0	-282.488	-25.408	696.227	80.434
0.250		388.331	0.0	0.0	-184.546	-16.634	589.510	187.151
0.500		388.331	0.0	0.0	-86.603	-7.859	482.793	293.869
0.750		388.331	0.0	0.0	11.339	0.916	400.585	376.076
1.000		388.331	0.0	0.0	109.281	9.690	507.302	269.359

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	V SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	486.474	0.0	0.0	-42.009	-19.040	547.522	425.425

0.250	486.474	0.0	0.0	-33.838	-5.496	525.808	447.139
0.500	486.474	0.0	0.0	-25.668	8.049	520.190	452.757
0.750	486.474	0.0	0.0	-17.498	21.593	525.564	447.383
1.000	486.474	0.0	0.0	-9.327	35.138	530.939	442.008

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-25.211	0.0	0.0	-25.657	-2.659	5.105	-55.526
0.250		-25.211	0.0	0.0	-15.295	-2.447	-7.468	-42.953
0.500		-25.211	0.0	0.0	-4.933	-2.236	-18.041	-32.380
0.750		-25.211	0.0	0.0	5.429	-2.025	-17.757	-32.664
1.000		-25.211	0.0	0.0	15.791	-1.813	-7.607	-42.814

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	5.460	0.0	0.0	-1.837	0.330	7.627	3.293
0.250		5.460	0.0	0.0	-1.187	0.272	6.919	4.001
0.500		5.460	0.0	0.0	-0.537	0.215	6.212	4.708
0.750		5.460	0.0	0.0	0.113	0.157	5.730	5.190
1.000		5.460	0.0	0.0	0.763	0.099	6.322	4.598

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	8.265	0.0	0.0	-1.778	-1.386	11.430	5.101
0.250		8.265	0.0	0.0	-1.200	-0.778	10.243	6.288
0.500		8.265	0.0	0.0	-0.623	-0.169	9.057	7.474
0.750		8.265	0.0	0.0	-0.046	0.440	8.751	7.780
1.000		8.265	0.0	0.0	0.532	1.049	9.846	6.685

MEMBER 160

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-603.632	0.0	0.0	0.738	-12.887	-590.006	-617.257
0.250		-603.632	0.0	0.0	41.118	-13.382	-549.132	-658.132
0.500		-603.632	0.0	0.0	81.499	-13.876	-508.257	-699.007
0.750		-603.632	0.0	0.0	121.879	-14.371	-467.382	-739.882
1.000		-603.632	0.0	0.0	162.259	-14.866	-426.507	-780.757

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-69.922	0.0	0.0	-68.649	8.485	7.211	-147.056
0.250		-69.922	0.0	0.0	1.173	8.020	-60.729	-79.115
0.500		-69.922	0.0	0.0	70.995	7.556	8.628	-148.472
0.750		-69.922	0.0	0.0	140.816	7.091	77.985	-217.830
1.000		-69.922	0.0	0.0	210.638	6.627	147.343	-287.187

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-38.226	0.0	0.0	13.851	-3.469	-20.906	-55.547
0.250		-38.226	0.0	0.0	5.326	-0.870	-32.031	-44.422
0.500		-38.226	0.0	0.0	-3.199	1.730	-33.297	-43.155
0.750		-38.226	0.0	0.0	-11.724	4.330	-22.172	-54.280
1.000		-38.226	0.0	0.0	-20.249	6.929	-11.047	-65.405

LOADING 6 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-4.959	0.0	0.0	-0.192	0.018	-4.729	-5.189
0.250		-4.959	0.0	0.0	0.307	-0.120	-4.512	-5.366
0.500		-4.959	0.0	0.0	0.805	-0.259	-3.875	-6.003

0,750	-4,939	0,0	0,0	1,304	-0,398	-3,237	-6,640
1,000	-4,939	0,0	0,0	1,803	-0,536	-2,600	-7,278

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	2,485	0,0	0,0	-0,069	0,805	3,359	1,612
0,250		2,485	0,0	0,0	0,079	0,189	2,753	2,217
0,500		2,485	0,0	0,0	0,227	-0,428	3,140	1,830
0,750		2,485	0,0	0,0	0,375	-1,044	3,904	1,066
1,000		2,485	0,0	0,0	0,523	-1,660	4,669	0,302

MEMBER 101

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	376,511	0,0	0,0	263,746	-72,991	715,248	59,774
0,250		376,511	0,0	0,0	182,023	-50,956	609,490	143,531
0,500		376,511	0,0	0,0	100,300	-28,922	505,733	247,289
0,750		376,511	0,0	0,0	18,577	-6,888	401,975	351,046
1,000		376,511	0,0	0,0	-63,146	15,147	454,803	298,218

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0	FR	-478,737	0,0	0,0	-15,773	-5,913	-457,051	-500,423
0,250		-478,737	0,0	0,0	-20,895	-9,206	-448,636	-508,837
0,500		-478,737	0,0	0,0	-26,016	-12,498	-440,223	-517,251
0,750		-478,737	0,0	0,0	-31,138	-15,790	-431,809	-525,665
1,000		-478,737	0,0	0,0	-36,259	-19,083	-423,395	-534,079

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START	AXIAL STRESS	Y SHEAR STRESS	Z SHEAR STRESS	Y BENDING STRESS	Z BENDING STRESS	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0 FR	-24,355	0.0	0.0	25,377	4,865	5,887	-54,598
0.250	-24,355	0.0	0.0	15,492	2,958	-5,906	-42,805
0.500	-24,355	0.0	0.0	5,607	1,050	-17,698	-31,012
0.750	-24,355	0.0	0.0	-4,278	-0,858	-19,220	-29,491
1.000	-24,355	0.0	0.0	-14,163	-2,765	-7,427	-41,284

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START	AXIAL STRESS	Y SHEAR STRESS	Z SHEAR STRESS	Y BENDING STRESS	Z BENDING STRESS	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0 FR	5,258	0.0	0.0	1,699	-0,021	6,978	3,538
0.250	5,258	0.0	0.0	1,226	-0,005	6,490	4,027
0.500	5,258	0.0	0.0	0,752	0,010	6,020	4,496
0.750	5,258	0.0	0.0	0,279	0,025	5,562	4,955
1.000	5,258	0.0	0.0	-0,195	0,040	5,494	5,023

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START	AXIAL STRESS	Y SHEAR STRESS	Z SHEAR STRESS	Y BENDING STRESS	Z BENDING STRESS	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0 FR	-4,253	0.0	0.0	-0,910	0,554	-2,789	-5,717
0.250	-4,253	0.0	0.0	-0,649	0,303	-3,300	-5,205
0.500	-4,253	0.0	0.0	-0,389	0,053	-3,811	-4,694
0.750	-4,253	0.0	0.0	-0,128	-0,198	-3,927	-4,579
1.000	-4,253	0.0	0.0	0,132	-0,448	-3,672	-4,834

MEMBER 162

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START	AXIAL STRESS	Y SHEAR STRESS	Z SHEAR STRESS	Y BENDING STRESS	Z BENDING STRESS	MAX NORMAL STRESS	MIN NORMAL STRESS

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-614,317	0.0	0.0	37,914	-47,306	-529,097	-699,537
0.250		-614,317	0.0	0.0	-12,978	-11,777	-589,563	-639,072
0.500		-614,317	0.0	0.0	-63,869	23,752	-526,696	-701,938
0.750		-614,317	0.0	0.0	-114,760	59,282	-440,276	-788,358
1.000		-614,317	0.0	0.0	-165,651	94,811	-353,855	-874,779

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	92,763	0.0	0.0	-87,476	-14,826	195,064	-9,539
0.250		92,763	0.0	0.0	-15,269	-12,199	120,231	65,294
0.500		92,763	0.0	0.0	56,938	-9,573	159,274	26,252
0.750		92,763	0.0	0.0	129,144	-6,947	228,854	-43,329
1.000		92,763	0.0	0.0	201,351	-4,321	298,435	-112,910

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-40,921	0.0	0.0	-13,574	-2,543	-24,803	-57,038
0.250		-40,921	0.0	0.0	-5,374	-2,007	-33,540	-48,302
0.500		-40,921	0.0	0.0	2,826	-1,471	-36,624	-45,218
0.750		-40,921	0.0	0.0	11,027	-0,935	-28,959	-52,882
1.000		-40,921	0.0	0.0	19,227	-0,398	-21,295	-60,547

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-5,057	0.0	0.0	0,635	-0,608	-3,814	-6,301
0.250		-5,057	0.0	0.0	0,067	-0,148	-4,842	-5,273
0.500		-5,057	0.0	0.0	-0,501	0,312	-4,244	-5,870
0.750		-5,057	0.0	0.0	-1,069	0,772	-3,216	-6,899
1.000		-5,057	0.0	0.0	-1,638	1,232	-2,188	-7,927

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	1.042	0.0	0.0	-0.220	-0.570	2.772	1.192
0.250		1.042	0.0	0.0	-0.024	-0.087	2.093	1.072
0.500		1.042	0.0	0.0	0.172	0.397	2.551	1.413
0.750		1.042	0.0	0.0	0.368	0.880	3.230	0.734
1.000		1.042	0.0	0.0	0.564	1.363	3.910	0.055

MEMBER 103

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-4.509	0.0	0.0	-105.344	-25.370	126.205	-135.223
0.250		-4.509	0.0	0.0	-59.311	-11.073	65.874	-74.893
0.500		-4.509	0.0	0.0	-13.278	3.225	11.994	-21.012
0.750		-4.509	0.0	0.0	32.755	17.522	45.768	-54.786
1.000		-4.509	0.0	0.0	78.788	31.820	106.098	-115.116

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	4.052	0.0	0.0	-36.835	-19.020	59.907	-51.803
0.250		4.052	0.0	0.0	-1.196	-13.238	18.486	-10.382
0.500		4.052	0.0	0.0	34.442	-7.455	45.950	-37.845
0.750		4.052	0.0	0.0	70.081	-1.672	75.806	-67.702
1.000		4.052	0.0	0.0	105.720	4.110	113.882	-105.778

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0	FR	-58.323	0.0	0.0	0.006	0.179	-58.136	-58.508
0.250		-58.323	0.0	0.0	0.006	0.134	-58.182	-58.463
0.500		-58.323	0.0	0.0	0.006	0.090	-58.227	-58.418
0.750		-58.323	0.0	0.0	0.006	0.045	-58.272	-58.373
1.000		-58.323	0.0	0.0	0.006	0.000	-58.317	-58.328

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-5.238	0.0	0.0	0.002	0.005	-5.230	-5.245
0.250		-5.238	0.0	0.0	0.002	0.004	-5.231	-5.244
0.500		-5.238	0.0	0.0	0.002	0.003	-5.232	-5.243
0.750		-5.238	0.0	0.0	0.002	0.001	-5.234	-5.241
1.000		-5.238	0.0	0.0	0.002	-0.000	-5.235	-5.240

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.365	0.0	0.0	-0.021	0.000	-0.344	-0.386
0.250		-0.365	0.0	0.0	-0.021	0.000	-0.344	-0.386
0.500		-0.365	0.0	0.0	-0.021	0.000	-0.344	-0.386
0.750		-0.365	0.0	0.0	-0.021	0.000	-0.344	-0.386
1.000		-0.365	0.0	0.0	-0.021	-0.000	-0.344	-0.385

MEMBER 114

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	123.618	0.0	0.0	0.0	0.0	123.618	123.618
0.250		123.618	0.0	0.0	0.0	0.0	123.618	123.618
0.500		123.618	0.0	0.0	0.0	0.0	123.618	123.618
0.750		123.618	0.0	0.0	0.0	0.0	123.618	123.618

1.000	125.618	0.0	0.0	0.0	0.0	125.618	125.618

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	73.637	0.0	0.0	0.0	0.0	73.637	73.637
0.250		73.637	0.0	0.0	0.0	0.0	73.637	73.637
0.500		73.637	0.0	0.0	0.0	0.0	73.637	73.637
0.750		73.637	0.0	0.0	0.0	0.0	73.637	73.637
1.000		73.637	0.0	0.0	0.0	0.0	73.637	73.637

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	58.244	0.0	0.0	0.0	0.0	58.244	58.244
0.250		58.244	0.0	0.0	0.0	0.0	58.244	58.244
0.500		58.244	0.0	0.0	0.0	0.0	58.244	58.244
0.750		58.244	0.0	0.0	0.0	0.0	58.244	58.244
1.000		58.244	0.0	0.0	0.0	0.0	58.244	58.244

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	5.238	0.0	0.0	0.0	0.0	5.238	5.238
0.250		5.238	0.0	0.0	0.0	0.0	5.238	5.238
0.500		5.238	0.0	0.0	0.0	0.0	5.238	5.238
0.750		5.238	0.0	0.0	0.0	0.0	5.238	5.238
1.000		5.238	0.0	0.0	0.0	0.0	5.238	5.238

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0.365	0.0	0.0	0.0	0.0	0.365	0.365
0.250		0.365	0.0	0.0	0.0	0.0	0.365	0.365

0.500	0.365	0.0	0.0	0.0	0.0	0.365	0.365
0.750	0.365	0.0	0.0	0.0	0.0	0.365	0.365
1.000	0.365	0.0	0.0	0.0	0.0	0.365	0.365

MEMBER 115

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL STRESS	Y SHEAR STRESS	Z SHEAR STRESS	Y BENDING STRESS	Z BENDING STRESS	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0	FR	-534.907	0.0	0.0	99.655	-23.928	-411.328	-658.486
0.250		-534.907	0.0	0.0	58.698	-44.853	-431.359	-638.455
0.500		-534.907	0.0	0.0	17.734	-65.783	-451.390	-618.424
0.750		-534.907	0.0	0.0	-23.226	-86.712	-424.969	-598.845
1.000		-534.907	0.0	0.0	-64.186	-107.641	-365.080	-706.738

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL STRESS	Y SHEAR STRESS	Z SHEAR STRESS	Y BENDING STRESS	Z BENDING STRESS	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0	FR	280.995	0.0	0.0	-13.478	-56.348	359.621	211.170
0.250		280.995	0.0	0.0	11.133	-37.887	330.015	231.976
0.500		280.995	0.0	0.0	35.743	-19.425	336.164	225.827
0.750		280.995	0.0	0.0	60.353	-0.964	342.313	219.679
1.000		280.995	0.0	0.0	84.964	17.497	385.456	178.534

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL STRESS	Y SHEAR STRESS	Z SHEAR STRESS	Y BENDING STRESS	Z BENDING STRESS	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0	FR	-17.231	0.0	0.0	0.156	-1.960	-15.129	-19.333
0.250		-17.231	0.0	0.0	-0.517	-2.358	-14.355	-20.108
0.500		-17.231	0.0	0.0	-1.191	-2.771	-15.269	-21.193
0.750		-17.231	0.0	0.0	-1.864	-3.183	-12.183	-22.279
1.000		-17.231	0.0	0.0	-2.538	-3.596	-11.097	-25.365

LOADING 6 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-11,800	0.0	0.0	-1,628	5,368	-8,805	-18,795
0.250		-11,800	0.0	0.0	-0,970	2,616	-8,015	-15,580
0.500		-11,800	0.0	0.0	-0,312	0,264	-11,224	-12,376
0.750		-11,800	0.0	0.0	0,346	-2,088	-9,166	-14,434
1.000		-11,800	0.0	0.0	1,004	-4,440	-5,956	-17,044

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	6,268	0.0	0.0	-1,951	2,899	11,118	1,418
0.250		6,268	0.0	0.0	-1,272	1,887	9,427	3,108
0.500		6,268	0.0	0.0	-0,595	0,876	7,737	4,799
0.750		6,268	0.0	0.0	0,086	-0,135	6,489	6,047
1.000		6,268	0.0	0.0	0,765	-1,146	8,180	4,356

MEMBER 110

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-72,021	0.0	0.0	-43,816	-12,246	-15,958	-128,083
0.250		-72,021	0.0	0.0	-19,956	9,677	-42,388	-101,654
0.500		-72,021	0.0	0.0	3,904	31,599	-30,518	-107,524
0.750		-72,021	0.0	0.0	27,764	53,522	9,265	-153,307
1.000		-72,021	0.0	0.0	51,624	75,445	55,048	-199,090

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-477.450	0.0	0.0	-48.047	-29.909	-509.494	-555.406
0.250	-477.450	0.0	0.0	-9.867	-8.291	-459.292	-495.608
0.500	-477.450	0.0	0.0	28.313	13.327	-435.811	-519.090
0.750	-477.450	0.0	0.0	66.493	34.945	-376.012	-578.886
1.000	-477.450	0.0	0.0	104.673	56.563	-316.214	-638.686

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-4.143	0.0	0.0	-1.999	-11.995	9.851	-18.138
0.250	-4.143	0.0	0.0	0.016	-7.363	5.236	-11.523
0.500	-4.143	0.0	0.0	2.031	-2.731	0.619	-8.906
0.750	-4.143	0.0	0.0	4.046	1.901	1.804	-10.090
1.000	-4.143	0.0	0.0	6.061	6.533	8.451	-16.737

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-1.261	0.0	0.0	0.053	1.101	-0.107	-2.415
0.250	-1.261	0.0	0.0	0.165	1.197	0.101	-2.623
0.500	-1.261	0.0	0.0	0.277	1.294	0.309	-2.831
0.750	-1.261	0.0	0.0	0.388	1.390	0.517	-3.040
1.000	-1.261	0.0	0.0	0.500	1.487	0.726	-3.248

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-11.018	0.0	0.0	-1.748	-6.989	-2.280	-15.756
0.250	-11.018	0.0	0.0	-0.867	-4.039	-6.112	-15.925
0.500	-11.018	0.0	0.0	0.014	-1.089	-9.916	-12.120
0.750	-11.018	0.0	0.0	0.895	1.861	-8.262	-13.774
1.000	-11.018	0.0	0.0	1.776	4.812	-4.431	-17.605

MEMBER 117

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-22.859	0.0	0.0	26.717	-117.289	121.147	-166.865
0.250		-22.859	0.0	0.0	17.836	-96.720	91.696	-137.415
0.500		-22.859	0.0	0.0	8.954	-76.150	62.246	-107.964
0.750		-22.859	0.0	0.0	0.073	-55.581	32.795	-78.513
1.000		-22.859	0.0	0.0	-8.809	-35.012	20.961	-66.680

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	223.570	0.0	0.0	-62.643	-55.560	301.773	105.367
0.250		223.570	0.0	0.0	-17.045	-44.978	285.594	101.547
0.500		223.570	0.0	0.0	28.553	-34.396	286.519	160.622
0.750		223.570	0.0	0.0	74.150	-23.814	321.534	125.606
1.000		223.570	0.0	0.0	119.748	-13.231	356.550	90.591

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	2.615	0.0	0.0	-6.026	-1.727	10.368	-5.139
0.250		2.615	0.0	0.0	-4.288	-0.817	7.719	-2.490
0.500		2.615	0.0	0.0	-2.549	0.094	5.257	-0.028
0.750		2.615	0.0	0.0	-0.811	1.008	4.429	0.800
1.000		2.615	0.0	0.0	0.928	1.915	5.457	-0.228

LOADING 8 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0	FR	0.603	0.0	0.0	-2.112	3.060	5.775	-8.569
0.250		0.603	0.0	0.0	-1.327	1.779	3.709	-2.503
0.500		0.603	0.0	0.0	-0.541	0.499	1.643	-0.437
0.750		0.603	0.0	0.0	0.245	-0.781	1.629	-0.423
1.000		0.603	0.0	0.0	1.031	-2.061	3.695	-2.489

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	3.834	0.0	0.0	-3.380	4.855	11.669	-4.001
0.250		3.834	0.0	0.0	-1.713	2.518	7.865	-0.197
0.500		3.834	0.0	0.0	-0.045	0.182	4.060	3.607
0.750		3.834	0.0	0.0	1.623	-1.955	7.412	0.256
1.000		3.834	0.0	0.0	3.290	-4.092	11.216	-3.568

MEMBER 118

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	110.496	0.0	0.0	20.829	-109.707	241.031	-20.040
0.250		110.496	0.0	0.0	5.648	-78.466	194.610	26.382
0.500		110.496	0.0	0.0	-9.533	-47.226	167.254	53.737
0.750		110.496	0.0	0.0	-24.714	-15.985	151.195	69.797
1.000		110.496	0.0	0.0	-39.894	15.255	165.645	55.346

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-240.437	0.0	0.0	-116.832	-55.205	-68.400	-412.474
0.250		-240.437	0.0	0.0	-89.268	-44.984	-106.165	-374.689
0.500		-240.437	0.0	0.0	-61.705	-34.763	-143.969	-336.905

0.750	-240.437	0.0	0.0	-34.182	-24.542	-181.753	-299.120
1.000	-240.437	0.0	0.0	-6.578	-14.321	-219.538	-261.536

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-84.110	0.0	0.0	446.129	-15.672	377.691	-545.911
0.250		-84.110	0.0	0.0	219.278	-8.678	143.846	-312.066
0.500		-84.110	0.0	0.0	-7.573	-1.684	-74.852	-93.368
0.750		-84.110	0.0	0.0	-234.425	5.310	155.625	-323.844
1.000		-84.110	0.0	0.0	-461.276	12.508	389.469	-557.689

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.005	0.0	0.0	0.218	2.759	2.971	-2.982
0.250		-0.005	0.0	0.0	-0.019	1.584	1.598	-1.609
0.500		-0.005	0.0	0.0	-0.256	0.410	0.661	-0.672
0.750		-0.005	0.0	0.0	-0.494	-0.764	1.252	-1.263
1.000		-0.005	0.0	0.0	-0.731	-1.938	2.664	-2.674

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-2.055	0.0	0.0	-1.757	1.273	0.975	-5.084
0.250		-2.055	0.0	0.0	-1.314	0.896	0.155	-4.264
0.500		-2.055	0.0	0.0	-0.871	0.519	-0.665	-3.444
0.750		-2.055	0.0	0.0	-0.428	0.142	-1.485	-2.624
1.000		-2.055	0.0	0.0	0.015	-0.235	-1.804	-2.305

MEMBER 119

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL STRESS	Y SHEAR STRESS	Z SHEAR STRESS	Y BENDING STRESS	Z BENDING STRESS	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0	FR	113,992	0.0	0.0	-23,176	-45,025	180,193	47,790
0.250		113,992	0.0	0.0	-6,995	-8,556	125,542	102,442
0.500		113,992	0.0	0.0	9,187	33,914	157,093	70,891
0.750		113,992	0.0	0.0	25,369	72,384	211,744	16,239
1.000		113,992	0.0	0.0	41,550	110,854	266,396	-38,412

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL STRESS	Y SHEAR STRESS	Z SHEAR STRESS	Y BENDING STRESS	Z BENDING STRESS	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0	FR	-222,860	0.0	0.0	-12,499	-51,604	-158,757	-286,962
0.250		-222,860	0.0	0.0	28,492	-19,971	-178,397	-267,322
0.500		-222,860	0.0	0.0	61,483	11,662	-149,715	-296,004
0.750		-222,860	0.0	0.0	98,478	43,295	-81,091	-364,628
1.000		-222,860	0.0	0.0	135,465	74,928	-12,467	-433,252

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL STRESS	Y SHEAR STRESS	Z SHEAR STRESS	Y BENDING STRESS	Z BENDING STRESS	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0	FR	-84,067	0.0	0.0	-461,718	12,106	389,756	-557,891
0.250		-84,067	0.0	0.0	-233,190	5,388	154,510	-322,644
0.500		-84,067	0.0	0.0	-4,661	-1,331	-78,075	-90,060
0.750		-84,067	0.0	0.0	223,867	-8,049	147,849	-315,983
1.000		-84,067	0.0	0.0	452,395	-14,768	383,095	-551,229

LOADING 6 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL STRESS	Y SHEAR STRESS	Z SHEAR STRESS	Y BENDING STRESS	Z BENDING STRESS	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0	FR	0.008	0.0	0.0	-0.587	-2.456	3.051	-3.035
0.250		0.008	0.0	0.0	-0.263	-0.808	1.078	-1.063
0.500		0.008	0.0	0.0	0.061	0.841	0.910	-0.894
0.750		0.008	0.0	0.0	0.385	2.489	2.883	-2.867
1.000		0.008	0.0	0.0	0.710	4.138	4.855	-4.840

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-2.277	0.0	0.0	-0.153	0.077	-2.047	-2.507
0.250		-2.277	0.0	0.0	0.523	-0.561	-1.193	-3.362
0.500		-2.277	0.0	0.0	1.200	-1.199	0.122	-4.676
0.750		-2.277	0.0	0.0	1.876	-1.837	1.436	-5.990
1.000		-2.277	0.0	0.0	2.552	-2.476	2.751	-7.305

MEMBER 120

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	411.552	0.0	0.0	-470.893	76.728	959.172	-136.069
0.250		411.552	0.0	0.0	-347.534	48.156	807.242	15.862
0.500		411.552	0.0	0.0	-224.175	19.585	655.312	167.792
0.750		411.552	0.0	0.0	-100.816	-8.986	521.354	301.750
1.000		411.552	0.0	0.0	22.543	-37.557	471.652	351.451

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	305.899	0.0	0.0	-250.460	65.745	622.104	-10.306
0.250		305.899	0.0	0.0	-180.129	37.791	525.819	87.979
0.500		305.899	0.0	0.0	-109.799	9.836	425.534	186.264
0.750		305.899	0.0	0.0	-39.468	-18.118	363.486	248.313
1.000		305.899	0.0	0.0	30.862	-46.073	382.834	228.964

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-82.020	0.0	0.0	-452.100	4.759	374.839	-538.879
0.250		-82.020	0.0	0.0	-223.994	1.516	183.489	-307.530
0.500		-82.020	0.0	0.0	4.113	-1.728	-76.180	-87.860
0.750		-82.020	0.0	0.0	232.219	-4.971	155.169	-319.210
1.000		-82.020	0.0	0.0	460.324	-8.215	386.519	-550.559

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	8.198	0.0	0.0	-8.007	3.088	19.286	-2.897
0.250		8.198	0.0	0.0	-5.815	2.001	16.011	0.378
0.500		8.198	0.0	0.0	-3.623	0.918	12.736	3.653
0.750		8.198	0.0	0.0	-1.431	-0.165	9.790	6.599
1.000		8.198	0.0	0.0	0.761	-1.248	10.203	6.186

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	4.154	0.0	0.0	-4.117	-3.577	11.648	-3.581
0.250		4.154	0.0	0.0	-2.908	-2.096	9.157	-0.850
0.500		4.154	0.0	0.0	-1.698	-0.814	6.666	1.641
0.750		4.154	0.0	0.0	-0.489	0.467	5.110	3.198
1.000		4.154	0.0	0.0	0.721	1.749	6.623	1.684

MEMBER 121

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

0.0	FR	395.834	0.0	0.0	-35.121	-11.288	442.244	349.425
0.250		395.834	0.0	0.0	95.002	-26.630	517.667	274.001
0.500		395.834	0.0	0.0	225.126	-42.373	663.333	128.336
0.750		395.834	0.0	0.0	355.250	-57.915	808.998	-17.330
1.000		395.834	0.0	0.0	485.373	-73.457	954.664	-162.995

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	298.530	0.0	0.0	-2.421	-14.457	315.408	281.652
0.250		298.530	0.0	0.0	59.639	-26.801	384.970	212.090
0.500		298.530	0.0	0.0	121.699	-39.145	459.374	137.686
0.750		298.530	0.0	0.0	183.758	-51.489	533.777	63.282
1.000		298.530	0.0	0.0	245.818	-63.833	608.181	-11.121

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-82.288	0.0	0.0	460.352	-8.900	386.964	-551.540
0.250		-82.288	0.0	0.0	233.316	-4.227	155.255	-319.832
0.500		-82.288	0.0	0.0	6.280	0.446	-75.562	-89.016
0.750		-82.288	0.0	0.0	-220.756	5.119	143.587	-308.163
1.000		-82.288	0.0	0.0	-447.792	9.792	375.295	-539.872

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	8.335	0.0	0.0	-0.331	-0.587	9.214	7.457
0.250		8.335	0.0	0.0	2.012	-0.691	11.038	5.633
0.500		8.335	0.0	0.0	4.355	-0.854	13.524	3.147
0.750		8.335	0.0	0.0	6.698	-0.977	16.010	0.661
1.000		8.335	0.0	0.0	9.041	-1.120	18.496	-1.826

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	4,256	0.0	0.0	0,244	2,296	6,796	1,715
0.250		4,256	0.0	0.0	1,369	0,136	5,760	2,751
0.500		4,256	0.0	0.0	2,494	-2,024	8,773	-0,262
0.750		4,256	0.0	0.0	3,618	-4,184	12,058	-3,547
1.000		4,256	0.0	0.0	4,743	-6,344	15,342	-6,831

MEMBER 122

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE / ---- STRESS ----/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-97,611	0.0	0.0	121,157	-139,488	163,034	-358,256
0.250		-97,611	0.0	0.0	95,360	-86,563	84,312	-279,534
0.500		-97,611	0.0	0.0	69,563	-33,638	5,590	-200,812
0.750		-97,611	0.0	0.0	43,766	19,287	-34,559	-160,665
1.000		-97,611	0.0	0.0	17,969	72,211	-7,451	-187,791

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE / ---- STRESS ----/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-41,239	0.0	0.0	-89,801	-46,520	75,082	-157,560
0.250		-41,239	0.0	0.0	-64,704	-33,814	37,280	-119,757
0.500		-41,239	0.0	0.0	-19,608	-21,108	-0,525	-81,955
0.750		-41,239	0.0	0.0	5,489	-8,403	27,387	-55,131
1.000		-41,239	0.0	0.0	30,586	4,305	-6,350	-76,128

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE / ---- STRESS ----/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-84,307	0.0	0.0	454,573	3,670	375,937	-542,550
0.250		-84,307	0.0	0.0	225,624	0,915	142,232	-310,840

0.500	-84.307	0.0	0.0	-3.326	-1.840	-79.181	-89.472
0.750	-84.307	0.0	0.0	-232.275	-4.595	152.568	-521.177
1.000	-84.307	0.0	0.0	-461.225	-7.350	384.260	-552.882

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FWD= START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.714	0.0	0.0	2.340	1.977	5.036	-3.609
0.250		0.714	0.0	0.0	1.276	1.378	3.968	-2.541
0.500		0.714	0.0	0.0	1.406	0.780	2.699	-1.472
0.750		0.714	0.0	0.0	0.936	0.181	1.831	-0.404
1.000		0.714	0.0	0.0	0.466	-0.418	1.598	-0.170

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FWD= START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.264	0.0	0.0	-0.738	2.031	3.034	-2.505
0.250		0.264	0.0	0.0	-0.446	1.114	1.824	-1.296
0.500		0.264	0.0	0.0	-0.155	0.196	0.615	-0.087
0.750		0.264	0.0	0.0	0.137	-0.721	1.122	-0.508
1.000		0.264	0.0	0.0	0.429	-1.638	2.531	-1.603

MEMBER 123

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FWD= START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-112.924	0.0	0.0	16.403	42.101	-54.420	-171.428
0.250		-112.924	0.0	0.0	-34.032	42.608	-36.284	-189.564
0.500		-112.924	0.0	0.0	-84.467	43.114	14.658	-240.505
0.750		-112.924	0.0	0.0	-134.902	43.621	65.599	-291.446
1.000		-112.924	0.0	0.0	-185.337	44.127	116.540	-342.386

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	V SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-31,041	0.0	0.0	14,723	-1,940	-16,978	-48,304
0.250		-31,041	0.0	0.0	22,109	12,690	3,156	-66,460
0.500		-31,041	0.0	0.0	29,496	27,319	25,174	-88,056
0.750		-31,041	0.0	0.0	36,882	41,949	47,190	-110,472
1.000		-31,041	0.0	0.0	44,268	56,579	69,206	-132,486

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	V SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-88,538	0.0	0.0	-460,150	-7,904	383,520	-552,587
0.250		-88,538	0.0	0.0	-234,178	-3,899	155,543	-322,611
0.500		-88,538	0.0	0.0	-8,206	0,107	-76,221	-92,847
0.750		-88,538	0.0	0.0	217,765	4,112	137,584	-306,411
1.000		-88,538	0.0	0.0	443,737	8,118	367,321	-530,388

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	V SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0,842	0.0	0.0	0,368	-0,133	1,343	0,342
0.250		0,842	0.0	0.0	-0,513	0,127	1,402	0,202
0.500		0,842	0.0	0.0	-1,394	0,387	2,623	-0,938
0.750		0,842	0.0	0.0	-2,274	0,646	3,763	-2,078
1.000		0,842	0.0	0.0	-3,155	0,906	4,904	-3,219

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	V SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0,126	0.0	0.0	0,100	-2,058	2,285	-2,033
0.250		0,126	0.0	0.0	0,074	-0,049	0,248	0,008
0.500		0,126	0.0	0.0	0,047	1,961	2,134	-1,882
0.750		0,126	0.0	0.0	0,021	3,971	4,117	-3,865

1.000	0.126	0.0	0.0	-0.006	5.980	6.112	-5.860

MEMBER 124

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-5.001	0.0	0.0	-129.505	-67.109	191.613	-201.615
0.250		-5.001	0.0	0.0	-73.019	-38.838	106.856	-116.858
0.500		-5.001	0.0	0.0	-16.533	-10.566	22.098	-32.100
0.750		-5.001	0.0	0.0	39.954	17.705	52.658	-62.660
1.000		-5.001	0.0	0.0	96.440	45.976	137.415	-147.417

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	16.983	0.0	0.0	-32.706	-31.483	81.172	-47.207
0.250		16.983	0.0	0.0	-4.020	-21.051	42.054	-8.088
0.500		16.983	0.0	0.0	24.667	-10.619	52.268	-18.302
0.750		16.983	0.0	0.0	53.353	-0.186	70.522	-36.557
1.000		16.983	0.0	0.0	82.039	10.246	109.268	-75.302

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.767	0.0	0.0	1.851	-0.720	1.804	-3.338
0.250		-0.767	0.0	0.0	1.952	-0.299	1.485	-3.018
0.500		-0.767	0.0	0.0	2.054	0.121	1.408	-2.942
0.750		-0.767	0.0	0.0	2.155	0.542	1.930	-3.463
1.000		-0.767	0.0	0.0	2.256	0.962	2.452	-3.985

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0.169	0.0	0.0	-2.055	-0.183	2.407	-2.069
0.250		0.169	0.0	0.0	-1.072	-0.235	1.476	-1.138
0.500		0.169	0.0	0.0	-0.088	-0.287	0.544	-0.206
0.750		0.169	0.0	0.0	0.896	-0.340	1.405	-1.067
1.000		0.169	0.0	0.0	1.880	-0.392	2.441	-2.105

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.395	0.0	0.0	-0.550	0.386	0.542	-1.331
0.250		-0.395	0.0	0.0	-0.016	0.318	-0.060	-0.729
0.500		-0.395	0.0	0.0	0.518	0.251	0.374	-1.164
0.750		-0.395	0.0	0.0	1.052	0.183	0.840	-1.630
1.000		-0.395	0.0	0.0	1.586	0.115	1.306	-2.096

MEMBER 125

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-12.505	0.0	0.0	77.040	60.975	125.509	-150.520
0.250		-12.505	0.0	0.0	64.585	36.059	88.138	-113.149
0.500		-12.505	0.0	0.0	52.130	11.143	50.768	-75.778
0.750		-12.505	0.0	0.0	39.675	-13.772	40.941	-65.952
1.000		-12.505	0.0	0.0	27.220	-38.688	53.402	-78.413

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0	FR	-14,740	0.0	0.0	30,246	50,453	65,959	-95,439
0.250		-14,740	0.0	0.0	38,208	25,936	89,404	-78,685
0.500		-14,740	0.0	0.0	86,170	1,420	32,850	-62,330
0.750		-14,740	0.0	0.0	54,132	-23,097	62,889	-91,969
1.000		-14,740	0.0	0.0	62,094	-47,614	94,968	-124,448

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0,902	0.0	0.0	-0,916	-0,285	0,299	-2,104
0.250		-0,902	0.0	0.0	-1,485	0,012	0,594	-2,399
0.500		-0,902	0.0	0.0	-2,053	0,308	1,459	-3,264
0.750		-0,902	0.0	0.0	-2,621	0,605	2,326	-4,129
1.000		-0,902	0.0	0.0	-3,189	0,902	3,189	-4,994

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0,163	0.0	0.0	1,535	0,956	2,654	-2,328
0.250		0,163	0.0	0.0	1,285	0,448	1,896	-1,570
0.500		0,163	0.0	0.0	1,035	-0,060	1,258	-0,932
0.750		0,163	0.0	0.0	0,785	-0,569	1,517	-1,191
1.000		0,163	0.0	0.0	0,535	-1,077	1,775	-1,449

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0,361	0.0	0.0	0,697	-0,500	1,358	-0,637
0.250		0,361	0.0	0.0	0,718	-0,500	1,379	-0,657
0.500		0,361	0.0	0.0	0,739	-0,299	1,399	-0,678
0.750		0,361	0.0	0.0	0,761	-0,299	1,420	-0,699
1.000		0,361	0.0	0.0	0,782	-0,298	1,441	-0,719

MEMBER 126

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	19.327	0.0	0.0	-67.746	20.197	107.270	-68.616
0.250		19.327	0.0	0.0	-70.098	10.387	99.813	-61.158
0.500		19.327	0.0	0.0	-72.451	0.577	92.355	-53.701
0.750		19.327	0.0	0.0	-74.803	-9.233	103.364	-64.710
1.000		19.327	0.0	0.0	-77.156	-19.048	115.527	-76.872

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-2.104	0.0	0.0	-42.528	3.474	43.698	-46.106
0.250		-2.104	0.0	0.0	-32.277	-2.862	33.035	-37.243
0.500		-2.104	0.0	0.0	-22.026	-9.197	29.119	-33.327
0.750		-2.104	0.0	0.0	-11.776	-15.553	25.204	-29.412
1.000		-2.104	0.0	0.0	-1.525	-21.868	21.289	-25.497

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.017	0.0	0.0	-4.656	0.255	4.694	-4.927
0.250		-0.017	0.0	0.0	-4.179	0.382	4.505	-4.538
0.500		-0.017	0.0	0.0	-3.703	0.430	4.116	-4.149
0.750		-0.017	0.0	0.0	-3.226	0.517	3.727	-3.760
1.000		-0.017	0.0	0.0	-2.750	0.605	3.338	-3.371

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.272	0.0	0.0	-1.174	-0.233	1.135	-1.680

0.250	-0.272	0.0	0.0	-1.255	-0.291	1.274	-1.818
0.500	-0.272	0.0	0.0	-1.337	-0.348	1.412	-1.957
0.750	-0.272	0.0	0.0	-1.418	-0.405	1.550	-2.095
1.000	-0.272	0.0	0.0	-1.499	-0.462	1.689	-2.233

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0.048	0.0	0.0	-0.686	0.808	1.542	-1.446
0.250		0.048	0.0	0.0	-0.521	0.380	0.948	-0.852
0.500		0.048	0.0	0.0	-0.355	-0.049	0.452	-0.356
0.750		0.048	0.0	0.0	-0.190	-0.477	0.715	-0.619
1.000		0.048	0.0	0.0	-0.024	-0.905	0.977	-0.882

MEMBER 127

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	5.186	0.0	0.0	-0.030	-0.103	5.319	5.056
0.250		5.186	0.0	0.0	-0.027	-0.103	5.317	5.056
0.500		5.186	0.0	0.0	-0.024	-0.104	5.314	5.058
0.750		5.186	0.0	0.0	-0.022	-0.104	5.312	5.061
1.000		5.186	0.0	0.0	-0.019	-0.104	5.310	5.063

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-48.993	0.0	0.0	0.081	-0.085	-48.827	-49.159
0.250		-48.993	0.0	0.0	0.057	-0.083	-48.852	-49.134
0.500		-48.993	0.0	0.0	0.033	-0.082	-48.878	-49.109
0.750		-48.993	0.0	0.0	0.009	-0.081	-48.903	-49.084
1.000		-48.993	0.0	0.0	-0.015	-0.080	-48.898	-49.088

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-73.941	0.0	0.0	0.388	-0.021	-73.552	-74.350
0.250		-73.941	0.0	0.0	0.291	-0.017	-73.634	-74.248
0.500		-73.941	0.0	0.0	0.194	-0.012	-73.755	-74.147
0.750		-73.941	0.0	0.0	0.096	-0.008	-73.837	-74.045
1.000		-73.941	0.0	0.0	-0.001	-0.003	-73.958	-73.945

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.105	0.0	0.0	-0.001	-0.004	0.107	0.098
0.250		0.105	0.0	0.0	-0.001	-0.004	0.107	0.098
0.500		0.105	0.0	0.0	-0.001	-0.004	0.107	0.098
0.750		0.103	0.0	0.0	-0.001	-0.004	0.107	0.098
1.000		0.103	0.0	0.0	-0.001	-0.004	0.107	0.098

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-1.163	0.0	0.0	0.002	-0.003	-1.159	-1.168
0.250		-1.163	0.0	0.0	0.001	-0.003	-1.159	-1.166
0.500		-1.163	0.0	0.0	0.001	-0.003	-1.160	-1.167
0.750		-1.163	0.0	0.0	0.000	-0.003	-1.160	-1.166
1.000		-1.163	0.0	0.0	-0.001	-0.003	-1.160	-1.167

MEMBER 128

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-5.186	0.0	0.0	0.0	0.0	-5.186	-5.186
0.250		-5.186	0.0	0.0	0.0	0.0	-5.186	-5.186
0.500		-5.186	0.0	0.0	0.0	0.0	-5.186	-5.186
0.750		-5.186	0.0	0.0	0.0	0.0	-5.186	-5.186
1.000		-5.186	0.0	0.0	0.0	0.0	-5.186	-5.186

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	48.994	0.0	0.0	0.0	0.0	48.994	48.994
0.250		48.994	0.0	0.0	0.0	0.0	48.994	48.994
0.500		48.994	0.0	0.0	0.0	0.0	48.994	48.994
0.750		48.994	0.0	0.0	0.0	0.0	48.994	48.994
1.000		48.994	0.0	0.0	0.0	0.0	48.994	48.994

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	73.863	0.0	0.0	0.0	0.0	73.863	73.863
0.250		73.863	0.0	0.0	0.0	0.0	73.863	73.863
0.500		73.863	0.0	0.0	0.0	0.0	73.863	73.863
0.750		73.863	0.0	0.0	0.0	0.0	73.863	73.863
1.000		73.863	0.0	0.0	0.0	0.0	73.863	73.863

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.103	0.0	0.0	0.0	0.0	-0.103	-0.103
0.250		-0.103	0.0	0.0	0.0	0.0	-0.103	-0.103
0.500		-0.103	0.0	0.0	0.0	0.0	-0.103	-0.103
0.750		-0.103	0.0	0.0	0.0	0.0	-0.103	-0.103
1.000		-0.103	0.0	0.0	0.0	0.0	-0.103	-0.103

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	1.163	0.0	0.0	0.0	0.0	1.163	1.163
0.250		1.163	0.0	0.0	0.0	0.0	1.163	1.163
0.500		1.163	0.0	0.0	0.0	0.0	1.163	1.163
0.750		1.163	0.0	0.0	0.0	0.0	1.163	1.163
1.000		1.163	0.0	0.0	0.0	0.0	1.163	1.163

MEMBER 129

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-91.481	0.0	0.0	-0.192	0.059	-91.230	-91.733
0.250		-91.481	0.0	0.0	-0.147	0.061	-91.272	-91.690
0.500		-91.481	0.0	0.0	-0.103	0.064	-91.315	-91.647
0.750		-91.481	0.0	0.0	-0.058	0.066	-91.358	-91.604
1.000		-91.481	0.0	0.0	-0.013	0.068	-91.401	-91.562

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-18.873	0.0	0.0	-0.068	0.163	-18.642	-19.105
0.250		-18.873	0.0	0.0	-0.058	0.163	-18.651	-19.094
0.500		-18.873	0.0	0.0	-0.049	0.164	-18.660	-19.085
0.750		-18.873	0.0	0.0	-0.040	0.164	-18.669	-19.077
1.000		-18.873	0.0	0.0	-0.031	0.164	-18.678	-19.068

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-76.151	0.0	0.0	-0.393	-0.015	-75.743	-76.559
0.250		-76.151	0.0	0.0	-0.295	-0.010	-75.846	-76.456
0.500		-76.151	0.0	0.0	-0.197	-0.006	-75.948	-76.353
0.750		-76.151	0.0	0.0	-0.099	-0.001	-76.051	-76.251
1.000		-76.151	0.0	0.0	-0.001	0.004	-76.147	-76.155

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-1.058	0.0	0.0	-0.002	0.001	-1.055	-1.061
0.250		-1.058	0.0	0.0	-0.002	0.001	-1.056	-1.060
0.500		-1.058	0.0	0.0	-0.001	0.001	-1.056	-1.060
0.750		-1.058	0.0	0.0	-0.001	0.001	-1.057	-1.059
1.000		-1.058	0.0	0.0	-0.000	0.001	-1.057	-1.059

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.111	0.0	0.0	-0.001	0.003	-0.107	-0.115
0.250		-0.111	0.0	0.0	-0.001	0.003	-0.107	-0.115
0.500		-0.111	0.0	0.0	-0.001	0.003	-0.107	-0.115
0.750		-0.111	0.0	0.0	-0.001	0.003	-0.107	-0.115
1.000		-0.111	0.0	0.0	-0.001	0.003	-0.107	-0.115

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LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	91.482	0.0	0.0	0.0	0.0	91.482	91.482
0.250		91.482	0.0	0.0	0.0	0.0	91.482	91.482

0.500	91.482	0.0	0.0	0.0	0.0	91.482	91.482
0.750	91.482	0.0	0.0	0.0	0.0	91.482	91.482
1.000	91.482	0.0	0.0	0.0	0.0	91.482	91.482

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START	STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	18.873	0.0	0.0	0.0	0.0	18.873	18.873
0.250	18.873	0.0	0.0	0.0	0.0	18.873	18.873
0.500	18.873	0.0	0.0	0.0	0.0	18.873	18.873
0.750	18.873	0.0	0.0	0.0	0.0	18.873	18.873
1.000	18.873	0.0	0.0	0.0	0.0	18.873	18.873

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START	STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	76.073	0.0	0.0	0.0	0.0	76.073	76.073
0.250	76.073	0.0	0.0	0.0	0.0	76.073	76.073
0.500	76.073	0.0	0.0	0.0	0.0	76.073	76.073
0.750	76.073	0.0	0.0	0.0	0.0	76.073	76.073
1.000	76.073	0.0	0.0	0.0	0.0	76.073	76.073

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START	STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	1.058	0.0	0.0	0.0	0.0	1.058	1.058
0.250	1.058	0.0	0.0	0.0	0.0	1.058	1.058
0.500	1.058	0.0	0.0	0.0	0.0	1.058	1.058
0.750	1.058	0.0	0.0	0.0	0.0	1.058	1.058
1.000	1.058	0.0	0.0	0.0	0.0	1.058	1.058

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START	STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

0.0	FR	0.111	0.0	0.0	0.0	0.0	0.111	0.111
0.250		0.111	0.0	0.0	0.0	0.0	0.111	0.111
0.500		0.111	0.0	0.0	0.0	0.0	0.111	0.111
0.750		0.111	0.0	0.0	0.0	0.0	0.111	0.111
1.000		0.111	0.0	0.0	0.0	0.0	0.111	0.111

MEMBER 131

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	93.739	0.0	0.0	0.276	-0.093	94.107	93.370
0.250		93.739	0.0	0.0	0.276	-0.069	94.084	93.393
0.500		93.739	0.0	0.0	0.276	-0.046	94.061	93.416
0.750		93.739	0.0	0.0	0.276	-0.023	94.038	93.439
1.000		93.739	0.0	0.0	0.276	-0.000	94.015	93.462

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	72.165	0.0	0.0	0.021	-0.071	72.257	72.073
0.250		72.165	0.0	0.0	0.021	-0.053	72.239	72.091
0.500		72.165	0.0	0.0	0.021	-0.036	72.221	72.109
0.750		72.165	0.0	0.0	0.021	-0.018	72.204	72.127
1.000		72.165	0.0	0.0	0.021	-0.000	72.186	72.144

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-74.008	0.0	0.0	0.005	0.195	-73.808	-74.208
0.250		-74.008	0.0	0.0	0.005	0.146	-73.857	-74.160
0.500		-74.008	0.0	0.0	0.005	0.097	-73.906	-74.111
0.750		-74.008	0.0	0.0	0.005	0.049	-73.954	-74.062

1.000	-74.008	0.0	0.0	0.005	-0.000	-74.003	-74.010

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	1.966	0.0	0.0	0.008	-0.002	1.978	1.958
0.250		1.966	0.0	0.0	0.008	-0.001	1.977	1.958
0.500		1.966	0.0	0.0	0.008	-0.001	1.977	1.959
0.750		1.966	0.0	0.0	0.008	-0.000	1.976	1.959
1.000		1.968	0.0	0.0	0.008	-0.000	1.976	1.960

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	2.257	0.0	0.0	-0.001	-0.002	2.261	2.256
0.250		2.257	0.0	0.0	-0.001	-0.002	2.260	2.256
0.500		2.257	0.0	0.0	-0.001	-0.001	2.260	2.255
0.750		2.257	0.0	0.0	-0.001	-0.001	2.259	2.255
1.000		2.257	0.0	0.0	-0.001	-0.000	2.259	2.256

MEMBER 132

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-93.739	0.0	0.0	0.0	0.0	-93.739	-93.739
0.250		-93.739	0.0	0.0	0.0	0.0	-93.739	-93.739
0.500		-93.739	0.0	0.0	0.0	0.0	-93.739	-93.739
0.750		-93.739	0.0	0.0	0.0	0.0	-93.739	-93.739
1.000		-93.739	0.0	0.0	0.0	0.0	-93.739	-93.739

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-72,166	0.0	0.0	0.0	0.0	-72,166	-72,166
0.250		-72,166	0.0	0.0	0.0	0.0	-72,166	-72,166
0.500		-72,166	0.0	0.0	0.0	0.0	-72,166	-72,166
0.750		-72,166	0.0	0.0	0.0	0.0	-72,166	-72,166
1.000		-72,166	0.0	0.0	0.0	0.0	-72,166	-72,166

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	73,930	0.0	0.0	0.0	0.0	73,930	73,930
0.250		73,930	0.0	0.0	0.0	0.0	73,930	73,930
0.500		73,930	0.0	0.0	0.0	0.0	73,930	73,930
0.750		73,930	0.0	0.0	0.0	0.0	73,930	73,930
1.000		73,930	0.0	0.0	0.0	0.0	73,930	73,930

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-1,968	0.0	0.0	0.0	0.0	-1,968	-1,968
0.250		-1,968	0.0	0.0	0.0	0.0	-1,968	-1,968
0.500		-1,968	0.0	0.0	0.0	0.0	-1,968	-1,968
0.750		-1,968	0.0	0.0	0.0	0.0	-1,968	-1,968
1.000		-1,968	0.0	0.0	0.0	0.0	-1,968	-1,968

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-2,257	0.0	0.0	0.0	0.0	-2,257	-2,257
0.250		-2,257	0.0	0.0	0.0	0.0	-2,257	-2,257
0.500		-2,257	0.0	0.0	0.0	0.0	-2,257	-2,257
0.750		-2,257	0.0	0.0	0.0	0.0	-2,257	-2,257
1.000		-2,257	0.0	0.0	0.0	0.0	-2,257	-2,257

MEMBER 133

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	9,329	0.0	0.0	17,966	-100,397	127,692	-109,034
0.250		9,329	0.0	0.0	5,590	-63,655	78,574	-59,916
0.500		9,329	0.0	0.0	-6,786	-26,913	43,028	-24,370
0.750		9,329	0.0	0.0	-19,162	9,828	38,319	-19,661
1.000		9,329	0.0	0.0	-31,538	46,570	87,457	-68,778

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	577,265	0.0	0.0	-81,899	-54,592	713,756	440,775
0.250		577,265	0.0	0.0	-27,402	-28,754	633,400	521,129
0.500		577,265	0.0	0.0	27,095	-2,875	607,235	547,294
0.750		577,265	0.0	0.0	81,592	22,983	681,840	472,689
1.000		577,265	0.0	0.0	136,089	48,842	762,196	392,333

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-4,545	0.0	0.0	-10,492	-3,853	9,800	-18,890
0.250		-4,545	0.0	0.0	-8,535	-1,408	5,398	-14,488
0.500		-4,545	0.0	0.0	-6,578	1,037	3,070	-12,160
0.750		-4,545	0.0	0.0	-4,621	3,482	3,558	-12,648
1.000		-4,545	0.0	0.0	-2,664	5,927	4,046	-13,136

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-3,942	0.0	0.0	-6,585	4,088	6,731	-14,615
0.250		-3,942	0.0	0.0	-5,557	-0,703	2,319	-10,203
0.500		-3,942	0.0	0.0	-4,529	-5,495	6,082	-13,966
0.750		-3,942	0.0	0.0	-3,501	-10,286	9,845	-17,729
1.000		-3,942	0.0	0.0	-2,473	-15,077	13,608	-21,492

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-13,739	0.0	0.0	-15,996	-0,692	2,948	-30,426
0.250		-13,739	0.0	0.0	-11,427	-1,305	-1,007	-26,471
0.500		-13,739	0.0	0.0	-6,859	-1,918	-4,962	-22,516
0.750		-13,739	0.0	0.0	-2,291	-2,531	-8,917	-18,561
1.000		-13,739	0.0	0.0	2,278	-3,145	-8,317	-19,161

MEMBER 191

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	637,622	0.0	0.0	237,889	-268,810	1184,320	130,924
0.250		637,622	0.0	0.0	266,509	-290,306	1196,437	80,807
0.500		637,622	0.0	0.0	295,129	-311,803	1208,554	30,690
0.750		637,622	0.0	0.0	323,750	-333,299	1220,671	-19,427
1.000		637,622	0.0	0.0	352,370	-354,796	1232,788	-69,543

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	44,272	0.0	0.0	157,410	-91,622	293,303	-204,760
0.250		44,272	0.0	0.0	165,910	-98,448	308,629	-220,086
0.500		44,272	0.0	0.0	174,410	-105,274	323,955	-235,412
0.750		44,272	0.0	0.0	182,910	-112,100	339,281	-250,738
1.000		44,272	0.0	0.0	191,410	-118,926	354,607	-266,064

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	133,198	0.0	0.0	7,685	17,127	158,010	108,386
0.250		133,198	0.0	0.0	8,559	12,162	153,919	112,477
0.500		133,198	0.0	0.0	9,433	7,198	149,828	116,568
0.750		133,198	0.0	0.0	10,306	2,233	145,737	120,658
1.000		133,198	0.0	0.0	11,180	-2,731	141,109	119,287

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	14,097	0.0	0.0	7,419	-0,934	22,450	5,744
0.250		14,097	0.0	0.0	8,354	-2,039	24,489	3,705
0.500		14,097	0.0	0.0	9,288	-3,144	26,529	1,666
0.750		14,097	0.0	0.0	10,222	-4,249	28,568	-0,374
1.000		14,097	0.0	0.0	11,156	-5,354	30,607	-2,413

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	3,136	0.0	0.0	-3,426	-7,551	14,112	-7,841
0.250		3,136	0.0	0.0	0,602	-6,220	9,957	-3,686
0.500		3,136	0.0	0.0	4,630	-4,889	12,655	-6,384
0.750		3,136	0.0	0.0	8,657	-3,559	15,352	-9,081
1.000		3,136	0.0	0.0	12,685	-2,228	18,049	-11,778

MEMBER 192

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-378.801	0.0	0.0	-41.003	-94.831	-242.967	-514.635
0.250		-378.801	0.0	0.0	-12.200	-106.349	-260.252	-497.349
0.500		-378.801	0.0	0.0	16.604	-117.868	-244.329	-513.272
0.750		-378.801	0.0	0.0	45.407	-129.386	-204.008	-553.594
1.000		-378.801	0.0	0.0	74.211	-140.904	-163.686	-593.916

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	820.045	0.0	0.0	56.331	64.492	940.869	699.221
0.250		820.045	0.0	0.0	83.307	20.970	924.323	715.768
0.500		820.045	0.0	0.0	110.283	-22.552	952.880	687.210
0.750		820.045	0.0	0.0	137.259	-66.074	1023.578	616.712
1.000		820.045	0.0	0.0	164.235	-109.596	1093.876	546.215

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	170.274	0.0	0.0	-9.138	9.495	188.906	151.641
0.250		170.274	0.0	0.0	3.073	7.350	180.696	159.851
0.500		170.274	0.0	0.0	15.284	5.204	190.762	149.785
0.750		170.274	0.0	0.0	27.495	3.059	200.828	139.719
1.000		170.274	0.0	0.0	39.706	0.914	210.893	129.654

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0	FR	-4,584	0.0	0.0	-7,914	6,340	9,669	-18,837
0.250		-4,584	0.0	0.0	-4,888	3,679	3,979	-13,147
0.500		-4,584	0.0	0.0	-1,855	1,019	-1,711	-7,457
0.750		-4,584	0.0	0.0	1,174	-1,642	-1,768	-7,400
1.000		-4,584	0.0	0.0	4,204	-4,303	3,922	-13,090

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	11,241	0.0	0.0	-6,856	9,883	27,980	-5,498
0.250		11,241	0.0	0.0	-3,762	5,820	20,825	1,659
0.500		11,241	0.0	0.0	-0,667	1,758	13,666	8,816
0.750		11,241	0.0	0.0	2,427	-2,305	15,973	6,509
1.000		11,241	0.0	0.0	5,522	-6,367	23,150	-0,648

MEMBER 193

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-427,312	0.0	0.0	-12,260	-1208,459	793,408	-1648,031
0.250		-427,312	0.0	0.0	-2,729	-721,863	297,280	-1151,903
0.500		-427,312	0.0	0.0	6,803	-235,267	-185,241	-669,382
0.750		-427,312	0.0	0.0	16,335	251,329	-159,647	-694,976
1.000		-427,312	0.0	0.0	25,867	737,926	536,481	-1191,104

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-769,706	0.0	0.0	9,345	-718,754	-41,627	-1497,784
0.250		-769,706	0.0	0.0	58,299	-382,915	-328,493	-1210,918
0.500		-769,706	0.0	0.0	107,252	-47,095	-615,358	-924,053

0.750	-769.706	0.0	0.0	156.206	288.724	-324.776	-1214.635
1.000	-769.706	0.0	0.0	205.160	624.543	59.997	-1599.408

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	167.296	0.0	0.0	-15.627	-48.380	231.302	103.289
0.250	167.296	0.0	0.0	-16.081	-24.059	207.436	127.155
0.500	167.296	0.0	0.0	-16.536	0.261	184.093	150.498
0.750	167.296	0.0	0.0	-16.990	24.582	208.868	125.723
1.000	167.296	0.0	0.0	-17.445	48.903	233.643	100.948

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-5.803	0.0	0.0	1.575	-17.032	12.805	-24.410
0.250	-5.803	0.0	0.0	1.094	-10.164	5.456	-17.061
0.500	-5.803	0.0	0.0	0.613	-3.297	-1.893	-9.712
0.750	-5.803	0.0	0.0	0.132	3.571	-2.099	-9.506
1.000	-5.803	0.0	0.0	-0.349	10.439	4.986	-16.591

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-9.846	0.0	0.0	-0.287	-17.936	8.377	-28.070
0.250	-9.846	0.0	0.0	0.333	-10.485	0.971	-20.664
0.500	-9.846	0.0	0.0	0.952	-3.034	-5.809	-13.022
0.750	-9.846	0.0	0.0	1.572	4.417	-3.858	-15.835
1.000	-9.846	0.0	0.0	2.191	11.868	4.213	-23.906

MEMBER 194

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
			STRESS				
0.0 FR	995.036	0.0	0.0	878.284	-765.979	2639.298	-649.227
0.250	995.036	0.0	0.0	477.012	-485.325	1957.373	32.699
0.500	995.036	0.0	0.0	75.741	-204.671	1675.447	315.774
0.750	995.036	0.0	0.0	-325.531	75.983	1396.549	593.522
1.000	995.036	0.0	0.0	-726.802	356.636	2078.474	-88.403

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
			STRESS				
0.0 FR	-59.385	0.0	0.0	640.591	-274.623	855.830	-974.599
0.250	-59.385	0.0	0.0	413.712	-[illegible]	[illegible]	-[illegible]
0.500	-59.385	0.0	0.0	186.832	-29.960	157.408	-276.177
0.750	-59.385	0.0	0.0	-40.047	92.371	73.038	-191.803
1.000	-59.385	0.0	0.0	-266.927	214.703	422.245	-541.014

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
			STRESS				
0.0 FR	194.014	0.0	0.0	24.973	-3.084	222.072	165.957
0.250	194.014	0.0	0.0	12.989	-11.623	218.627	169.402
0.500	194.014	0.0	0.0	1.005	-20.162	215.182	172.847
0.750	194.014	0.0	0.0	-10.979	-28.702	233.695	154.334
1.000	194.014	0.0	0.0	-22.963	-37.241	254.218	133.811

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
			STRESS				
0.0 FR	13.675	0.0	0.0	26.044	-14.177	53.896	-26.547
0.250	13.675	0.0	0.0	14.712	-8.577	36.964	-9.615
0.500	13.675	0.0	0.0	3.381	-2.977	20.032	7.317
0.750	13.675	0.0	0.0	-7.951	2.623	24.249	3.101
1.000	13.675	0.0	0.0	-19.282	8.223	41.180	-13.831

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-1.567	0.0	0.0	5.133	-7.327	10.893	-14.028
0.250		-1.567	0.0	0.0	3.540	-3.918	5.891	-9.025
0.500		-1.567	0.0	0.0	1.946	-0.510	0.889	-4.023
0.750		-1.567	0.0	0.0	0.352	2.899	1.884	-4.019
1.000		-1.567	0.0	0.0	-1.241	6.308	5.962	-9.116

MEMBER 195

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-402.647	0.0	0.0	-26.062	34.184	-342.401	-462.893
0.250		-402.647	0.0	0.0	-10.201	-35.387	-357.059	-448.236
0.500		-402.647	0.0	0.0	5.660	-104.959	-292.029	-513.266
0.750		-402.647	0.0	0.0	21.520	-174.531	-206.597	-598.696
1.000		-402.647	0.0	0.0	37.381	-244.103	-121.164	-684.131

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	500.297	0.0	0.0	152.929	43.891	697.116	303.478
0.250		500.297	0.0	0.0	133.947	22.850	657.094	343.500
0.500		500.297	0.0	0.0	114.965	1.810	617.072	383.522
0.750		500.297	0.0	0.0	95.983	-19.230	615.510	385.084
1.000		500.297	0.0	0.0	77.001	-40.270	617.568	383.026

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
				STRESS				
0.0	FR	96.424	0.0	0.0	-58.675	-50.773	205.872	-13.024
0.250		96.424	0.0	0.0	-26.075	-24.530	147.029	45.819
0.500		96.424	0.0	0.0	6.525	1.713	104.663	88.185
0.750		96.424	0.0	0.0	39.125	27.957	163.506	29.342
1.000		96.424	0.0	0.0	71.725	54.200	222.349	-29.501

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
				STRESS				
0.0	FR	-4.979	0.0	0.0	0.518	1.834	-2.628	-7.330
0.250		-4.979	0.0	0.0	0.174	0.875	-3.930	-6.028
0.500		-4.979	0.0	0.0	-0.170	-0.083	-4.725	-5.232
0.750		-4.979	0.0	0.0	-0.514	-1.041	-3.423	-6.534
1.000		-4.979	0.0	0.0	-0.858	-1.999	-2.121	-7.836

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
				STRESS				
0.0	FR	5.420	0.0	0.0	3.502	-0.659	9.581	1.258
0.250		5.420	0.0	0.0	2.394	-0.294	8.107	2.732
0.500		5.420	0.0	0.0	1.285	0.071	6.776	4.064
0.750		5.420	0.0	0.0	0.176	0.436	6.032	4.808
1.000		5.420	0.0	0.0	-0.933	0.802	7.154	3.685

MEMBER 196

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
				STRESS				

[illegible] FR	-251,583	0.0	0.0	12,177	485,281	245,495	-749,021
.250	-251,583	0.0	0.0	-11,526	295,466	55,451	-558,577
.500	-251,583	0.0	0.0	-35,229	105,697	-134,637	-392,489
.750	-251,583	0.0	0.0	-54,932	-84,095	-324,536	-344,590
1.000	-251,583	0.0	0.0	-82,635	-273,887	104,959	-606,085

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		/---------- STRESS ----------/						
0.0	FR	-592,656	0.0	0.0	117,519	277,614	-197,523	-987,789
0.250		-592,656	0.0	0.0	116,563	205,776	-270,318	-914,994
0.500		-592,656	0.0	0.0	115,606	133,937	-343,113	-842,200
0.750		-592,656	0.0	0.0	114,650	62,099	-415,907	-769,405
1.000		-592,656	0.0	0.0	113,694	-9,740	-489,223	-716,090

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		/---------- STRESS ----------/						
0.0	FR	98,674	0.0	0.0	78,889	-12,501	190,063	7,284
0.250		98,674	0.0	0.0	36,864	-2,846	138,383	58,964
0.500		98,674	0.0	0.0	-5,160	6,810	110,643	86,704
0.750		98,674	0.0	0.0	-47,185	16,465	162,323	35,024
1.000		98,674	0.0	0.0	-89,209	26,120	214,003	-16,655

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		/---------- STRESS ----------/						
0.0	FR	-2,818	0.0	0.0	0.053	6,971	4,205	-9,842
0.250		-2,818	0.0	0.0	0.018	4,846	2,048	-7,684
0.500		-2,818	0.0	0.0	-0.018	2,726	-0.074	-5,562
0.750		-2,818	0.0	0.0	-0.053	0.604	-2,161	-3,475
1.000		-2,818	0.0	0.0	-0.086	-1,518	-1,212	-4,425

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		/---------- STRESS ----------/						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-6.989	0.0	0.0	0.372	4.543	-2.073	-11.905
0.250		-6.989	0.0	0.0	0.492	2.991	-3.506	-10.472
0.500		-6.989	0.0	0.0	0.611	1.439	-4.939	-9.039
0.750		-6.989	0.0	0.0	0.730	-0.113	-6.145	-7.835
1.000		-6.989	0.0	0.0	0.850	-1.665	-8.478	-9.508

MEMBER 197

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	689.155	0.0	0.0	-431.085	206.803	1327.001	51.305
0.250		689.155	0.0	0.0	-286.877	126.303	1102.333	275.973
0.500		689.155	0.0	0.0	-142.710	45.802	877.666	500.641
0.750		689.155	0.0	0.0	1.457	-34.699	725.308	652.998
1.000		689.155	0.0	0.0	145.624	-115.199	949.977	428.330

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	112.516	0.0	0.0	-186.530	195.735	494.577	-269.546
0.250		112.516	0.0	0.0	-80.496	133.188	326.199	-101.168
0.500		112.516	0.0	0.0	25.337	70.644	208.496	16.535
0.750		112.516	0.0	0.0	131.170	8.099	251.785	-26.754
1.000		112.516	0.0	0.0	237.004	-54.445	405.965	-178.934

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	113.404	0.0	0.0	-20.101	73.348	206.853	19.955
0.250		113.404	0.0	0.0	-10.932	32.335	156.670	70.138

0.500	113.404	0.0	0.0	-1.762	-8.678	123.845	102.963
0.750	113.404	0.0	0.0	7.407	-89.691	170.503	56.306
1.000	113.404	0.0	0.0	16.576	-90.705	220.685	6.123

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	8.139	0.0	0.0	-10.355	5.267	23.761	-7.485
0.250	8.139	0.0	0.0	-6.934	5.732	18.805	-2.527
0.500	8.139	0.0	0.0	-3.514	2.197	13.850	2.428
0.750	8.139	0.0	0.0	-0.094	0.662	8.895	7.383
1.000	8.139	0.0	0.0	3.327	-0.873	12.359	3.959

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	1.611	0.0	0.0	-1.870	5.225	8.704	-5.483
0.250	1.611	0.0	0.0	-1.402	3.679	6.691	-3.470
0.500	1.611	0.0	0.0	-0.933	2.135	4.679	-1.458
0.750	1.611	0.0	0.0	-0.465	0.591	2.667	0.555
1.000	1.611	0.0	0.0	0.004	-0.953	2.567	0.654

MEMBER 198

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0 FR	-34.141	0.0	0.0	-301.912	276.319	588.091	-612.372
0.250	-34.141	0.0	0.0	-137.724	61.323	168.907	-233.188
0.500	-34.141	0.0	0.0	26.463	-153.672	185.998	-214.276
0.750	-34.141	0.0	0.0	190.650	-368.667	525.177	-593.456
1.000	-34.141	0.0	0.0	354.838	-583.663	904.361	-972.642

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	60.866	0.0	0.0	-72.857	536.321	470.044	-348.311
0.250		60.866	0.0	0.0	-4.247	147.679	212.793	-91.060
0.500		60.866	0.0	0.0	64.362	-40.962	166.191	-44.458
0.750		60.866	0.0	0.0	132.972	-229.604	423.441	-301.708
1.000		60.866	0.0	0.0	201.581	-418.246	680.693	-558.960

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	41.624	0.0	0.0	-69.256	-21.366	132.246	-48.998
0.250		41.624	0.0	0.0	-48.983	-17.744	108.351	-25.103
0.500		41.624	0.0	0.0	-28.710	-14.122	84.456	-1.208
0.750		41.624	0.0	0.0	-8.437	-10.500	60.561	22.687
1.000		41.624	0.0	0.0	11.836	-6.878	60.338	22.910

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.597	0.0	0.0	-1.753	-1.253	2.408	-3.603
0.250		-0.597	0.0	0.0	-1.297	-0.831	1.530	-2.725
0.500		-0.597	0.0	0.0	-0.841	-0.409	0.653	-1.847
0.750		-0.597	0.0	0.0	-0.385	0.013	-0.199	-0.996
1.000		-0.597	0.0	0.0	0.070	0.435	-0.092	-1.103

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.499	0.0	0.0	-0.406	1.338	2.288	-1.285
0.250		0.499	0.0	0.0	-0.317	0.858	1.674	-0.675
0.500		0.499	0.0	0.0	-0.228	0.377	1.105	-0.106
0.750		0.499	0.0	0.0	-0.139	-0.103	0.741	0.258

1.000	0.499	0.0	0.0	-0.049	-0.583	1.132	-0.133

MEMBER 199

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-55,087	0.0	0.0	286,377	350,840	602,129	-672,303
0.250		-55,087	0.0	0.0	122,836	111,259	199,009	-269,183
0.500		-55,087	0.0	0.0	-40,703	-128,320	133,936	-204,110
0.750		-55,087	0.0	0.0	-204,243	-367,899	537,055	-807,229
1.000		-55,087	0.0	0.0	-367,783	-607,479	940,176	-1010,350

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-59,836	0.0	0.0	36,274	-258,532	234,970	-354,642
0.250		-59,836	0.0	0.0	65,746	-109,282	115,192	-234,864
0.500		-59,836	0.0	0.0	95,217	39,967	75,348	-195,020
0.750		-59,836	0.0	0.0	124,689	189,216	254,069	-373,741
1.000		-59,836	0.0	0.0	154,161	338,466	432,791	-552,463

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	41,517	0.0	0.0	58,263	-37,834	137,614	-54,579
0.250		41,517	0.0	0.0	41,496	-28,760	111,773	-28,739
0.500		41,517	0.0	0.0	24,729	-19,686	85,933	-2,898
0.750		41,517	0.0	0.0	7,963	-10,612	60,092	22,962
1.000		41,517	0.0	0.0	-8,804	-1,538	51,859	31,175

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.616	0.0	0.0	0.947	-0.241	0.571	-1.804
0.250		-0.616	0.0	0.0	0.671	-0.125	0.180	-1.413
0.500		-0.616	0.0	0.0	0.395	-0.010	-0.211	-1.022
0.750		-0.616	0.0	0.0	0.120	0.106	-0.391	-0.632
1.000		-0.616	0.0	0.0	-0.156	0.222	-0.239	-0.994

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-0.897	0.0	0.0	2.690	0.225	2.017	-3.812
0.250		-0.897	0.0	0.0	1.653	-0.259	1.015	-2.809
0.500		-0.897	0.0	0.0	0.616	-0.743	0.462	-2.257
0.750		-0.897	0.0	0.0	-0.421	-1.227	0.751	-2.545
1.000		-0.897	0.0	0.0	-1.457	-1.712	2.272	-4.066

MEMBER 200

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	69.226	0.0	0.0	49.027	-191.584	309.836	-171.385
0.250		69.226	0.0	0.0	35.852	-134.014	239.092	-100.641
0.500		69.226	0.0	0.0	22.678	-76.445	168.348	-29.897
0.750		69.226	0.0	0.0	9.503	-18.876	97.605	40.847
1.000		69.226	0.0	0.0	-3.672	38.693	111.591	26.861

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0	FR	-1.295	0.0	0.0	-438.078	-66.544	503.327	-505.918
0.250		-1.295	0.0	0.0	-144.346	-49.392	192.443	-195.034
0.500		-1.295	0.0	0.0	149.385	-32.240	180.330	-182.921
0.750		-1.295	0.0	0.0	443.116	-15.088	456.908	-459.499
1.000		-1.295	0.0	0.0	736.848	2.064	737.616	-740.207

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	43.111	0.0	0.0	13.045	67.343	123.499	-37.277
0.250		43.111	0.0	0.0	8.300	48.981	100.392	-14.170
0.500		43.111	0.0	0.0	3.554	30.620	77.286	8.936
0.750		43.111	0.0	0.0	-1.191	12.259	56.561	29.661
1.000		43.111	0.0	0.0	-5.937	-6.102	55.150	31.073

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.570	0.0	0.0	0.750	-1.800	3.120	-1.979
0.250		0.570	0.0	0.0	0.629	-1.243	2.442	-1.302
0.500		0.570	0.0	0.0	0.509	-0.686	1.765	-0.625
0.750		0.570	0.0	0.0	0.388	-0.130	1.088	0.052
1.000		0.570	0.0	0.0	0.267	0.427	1.264	-0.124

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-0.248	0.0	0.0	1.024	-0.926	1.702	-2.197
0.250		-0.248	0.0	0.0	0.327	-0.690	0.769	-1.265
0.500		-0.248	0.0	0.0	-0.370	-0.454	0.576	-1.071
0.750		-0.248	0.0	0.0	-1.066	-0.218	1.037	-1.532
1.000		-0.248	0.0	0.0	-1.763	0.017	1.533	-2.028

MEMBER 201

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	244,487	0.0	0.0	-62,324	235,930	542,741	-53,766
0.250		244,487	0.0	0.0	-51,416	212,526	508,430	-19,455
0.500		244,487	0.0	0.0	-40,509	189,123	474,119	14,856
0.750		244,487	0.0	0.0	-29,601	165,720	439,808	49,167
1.000		244,487	0.0	0.0	-18,694	142,316	405,497	83,478

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-422,883	0.0	0.0	-175,249	46,542	-201,091	-644,674
0.250		-422,883	0.0	0.0	-164,395	37,445	-221,043	-624,722
0.500		-422,883	0.0	0.0	-153,540	28,348	-240,994	-604,771
0.750		-422,883	0.0	0.0	-142,686	19,251	-260,946	-584,819
1.000		-422,883	0.0	0.0	-131,831	10,154	-280,898	-564,867

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-279,002	0.0	0.0	28,919	9,009	-241,073	-316,930
0.250		-279,002	0.0	0.0	28,738	9,439	-240,825	-317,179
0.500		-279,002	0.0	0.0	28,557	9,869	-240,576	-317,428
0.750		-279,002	0.0	0.0	28,375	10,299	-240,328	-317,676
1.000		-279,002	0.0	0.0	28,194	10,729	-240,079	-317,925

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-33,754	0.0	0.0	10,145	21,867	-1,742	-65,766

0.250	-33.754	0.0	0.0	12.368	23.160	1.774	-69.282
0.500	-33.754	0.0	0.0	14.590	24.453	5.289	-72.797
0.750	-33.754	0.0	0.0	16.813	25.746	8.805	-76.313
1.000	-33.754	0.0	0.0	19.035	27.039	12.320	-79.828

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-62.245	0.0	0.0	-22.666	-4.161	-35.418	-89.072
0.250		-62.245	0.0	0.0	-19.849	-2.473	-39.923	-84.567
0.500		-62.245	0.0	0.0	-17.032	-0.785	-44.428	-80.062
0.750		-62.245	0.0	0.0	-14.215	0.904	-47.126	-77.364
1.000		-62.245	0.0	0.0	-11.398	2.592	-48.255	-76.235

MEMBER 202

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	244.674	0.0	0.0	-77.111	192.715	514.500	-25.151
0.250		244.674	0.0	0.0	-60.578	174.535	479.787	9.561
0.500		244.674	0.0	0.0	-44.046	156.354	445.074	44.274
0.750		244.674	0.0	0.0	-27.513	138.174	410.361	78.987
1.000		244.674	0.0	0.0	-10.981	119.994	375.648	113.700

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	421.173	0.0	0.0	-338.733	-127.049	886.955	-44.609
0.250		421.173	0.0	0.0	-283.817	-103.854	808.844	33.502
0.500		421.173	0.0	0.0	-228.902	-80.658	730.733	111.613
0.750		421.173	0.0	0.0	-173.986	-57.463	652.622	189.724
1.000		421.173	0.0	0.0	-119.071	-34.267	574.511	267.835

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-278,490	0.0	0.0	56,643	34,908	-186,939	-370,041
0.250		-278,490	0.0	0.0	24,610	28,506	-225,374	-331,606
0.500		-278,490	0.0	0.0	-7,423	22,105	-248,962	-308,019
0.750		-278,490	0.0	0.0	-39,457	15,704	-223,329	-333,651
1.000		-278,490	0.0	0.0	-71,490	9,303	-197,697	-359,283

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-33,454	0.0	0.0	0.016	23,628	-9,811	-57,098
0.250		-33,454	0.0	0.0	-6,677	24,394	-2,383	-64,525
0.500		-33,454	0.0	0.0	-13,370	25,159	5,076	-71,984
0.750		-33,454	0.0	0.0	-20,063	25,925	12,534	-79,443
1.000		-33,454	0.0	0.0	-26,756	26,691	19,993	-86,902

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-25,845	0.0	0.0	-23,758	7,665	5,578	-57,267
0.250		-25,845	0.0	0.0	-29,552	8,667	12,374	-64,064
0.500		-25,845	0.0	0.0	-35,345	9,670	19,171	-70,860
0.750		-25,845	0.0	0.0	-41,139	10,673	25,967	-77,657
1.000		-25,845	0.0	0.0	-46,933	11,676	32,764	-84,454

MEMBER 203

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-488.953	0.0	0.0	58.073	181.961	-248.914	-728.987
0.250		-489.953	0.0	0.0	58.318	179.320	-251.314	-726.591
0.500		-490.953	0.0	0.0	58.564	176.680	-253.710	-724.196
0.750		-491.953	0.0	0.0	58.809	174.039	-256.105	-721.800
1.000		-492.953	0.0	0.0	59.054	171.398	-258.500	-719.405

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0.053	0.0	0.0	-269.134	6.243	275.429	-275.324
0.250		0.053	0.0	0.0	-238.479	6.939	245.470	-245.365
0.500		0.053	0.0	0.0	-207.824	7.635	215.511	-215.406
0.750		0.053	0.0	0.0	-177.168	8.331	185.552	-185.447
1.000		0.053	0.0	0.0	-146.513	9.027	155.593	-155.488

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-266.660	0.0	0.0	1.952	-26.766	-237.942	-295.378
0.250		-266.660	0.0	0.0	1.978	-27.719	-236.962	-296.357
0.500		-266.660	0.0	0.0	2.005	-28.673	-235.982	-297.337
0.750		-266.660	0.0	0.0	2.031	-29.627	-235.002	-298.317
1.000		-266.660	0.0	0.0	2.057	-30.581	-234.022	-299.297

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-65.038	0.0	0.0	2.247	27.968	-34.823	-95.254
0.250		-65.038	0.0	0.0	2.246	24.737	-38.055	-92.021
0.500		-65.038	0.0	0.0	2.245	21.505	-41.288	-88.788
0.750		-65.038	0.0	0.0	2.243	18.274	-44.521	-85.555
1.000		-65.038	0.0	0.0	2.242	15.043	-47.754	-82.322

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-44,181	0.0	0.0	-16,098	-2,336	-25,747	-62,615
0.250		-44,181	0.0	0.0	-16,055	-5,054	-23,072	-65,290
0.500		-44,181	0.0	0.0	-16,011	-7,775	-20,397	-67,965
0.750		-44,181	0.0	0.0	-15,968	-10,492	-17,721	-70,640
1.000		-44,181	0.0	0.0	-15,924	-13,210	-15,046	-73,315

MEMBER 204

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	245,092	0.0	0.0	-40,837	181,294	467,222	22,961
0.250		245,092	0.0	0.0	-16,481	88,741	350,313	139,870
0.500		245,092	0.0	0.0	7,876	-3,812	256,779	233,404
0.750		245,092	0.0	0.0	32,232	-96,365	373,688	116,495
1.000		245,092	0.0	0.0	56,589	-188,917	490,597	-0,414

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-423,883	0.0	0.0	-140,224	24,930	-258,729	-589,037
0.250		-423,883	0.0	0.0	-83,907	0,120	-339,656	-507,910
0.500		-423,883	0.0	0.0	-27,590	-24,690	-371,604	-476,162
0.750		-423,883	0.0	0.0	28,727	-49,499	-345,657	-502,109
1.000		-423,883	0.0	0.0	85,044	-74,309	-264,550	-583,236

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-322,782	0,0	0,0	28,698	9,842	-284,242	-361,322
0.250		-322,782	0,0	0,0	20,867	5,728	-296,187	-349,377
0.500		-322,782	0,0	0,0	13,036	1,614	-308,132	-337,432
0.750		-322,782	0,0	0,0	5,205	-2,500	-315,077	-330,487
1,000		-322,782	0,0	0,0	-2,626	-6,614	-313,542	-332,021

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
					STRESS			
0.0	FR	-33,752	0,0	0,0	20,306	24,804	11,358	-78,861
0,250		-33,752	0,0	0,0	13,677	20,887	0,815	-68,316
0,500		-33,752	0,0	0,0	7,049	16,971	-9,732	-57,771
0,750		-33,752	0,0	0,0	0,421	13,054	-20,277	-47,226
1,000		-33,752	0,0	0,0	-6,207	9,137	-18,407	-49,096

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
					STRESS			
0.0	FR	-62,243	0,0	0,0	-10,750	1,452	-50,041	-74,446
0,250		-62,243	0,0	0,0	-8,869	2,420	-50,954	-73,533
0,500		-62,243	0,0	0,0	-6,988	3,388	-51,867	-72,620
0,750		-62,243	0,0	0,0	-5,107	4,356	-52,780	-71,707
1,000		-62,243	0,0	0,0	-3,227	5,324	-53,693	-70,794

MEMBER 205

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
					STRESS			
0.0	FR	245,099	0,0	0,0	-6,254	127,234	378,587	111,611
0,250		245,099	0,0	0,0	45,346	-12,017	302,462	187,736

0.500	245.099	0.0	0.0	96.947	-151.268	493.314	-5.116
0.750	245.099	0.0	0.0	148.548	-290.519	684.165	-195.967
1.000	245.099	0.0	0.0	200.149	-429.770	875.017	-384.819

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	423.868	0.0	0.0	-151.273	-89.520	664.661	183.075
0.250		423.868	0.0	0.0	-60.906	-80.159	564.932	282.803
0.500		423.868	0.0	0.0	29.462	-70.797	524.127	323.609
0.750		423.868	0.0	0.0	119.829	-61.436	605.133	242.603
1.000		423.868	0.0	0.0	210.196	-52.075	686.139	161.596

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-323.200	0.0	0.0	-67.201	17.386	-238.613	-407.787
0.250		-323.200	0.0	0.0	-48.639	7.343	-267.218	-379.182
0.500		-323.200	0.0	0.0	-30.077	-2.701	-290.422	-355.978
0.750		-323.200	0.0	0.0	-11.515	-12.744	-296.940	-347.459
1.000		-323.200	0.0	0.0	7.047	-22.788	-293.365	-353.034

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-33.752	0.0	0.0	-27.847	24.745	18.840	-86.344
0.250		-33.752	0.0	0.0	-18.707	19.392	4.348	-71.851
0.500		-33.752	0.0	0.0	-9.567	14.039	-10.145	-57.358
0.750		-33.752	0.0	0.0	-0.427	8.687	-24.638	-42.866
1.000		-33.752	0.0	0.0	8.712	3.334	-21.706	-45.798

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL

0.0	FR	-26,119	0.0	0.0	-45,859	13,861	33,602	-85,839
0.250		-26,119	0.0	0.0	-34,837	7,836	16,554	-68,791
0.500		-26,119	0.0	0.0	-23,815	1,810	-0,494	-51,745
0.750		-26,119	0.0	0.0	-12,792	-4,215	-9,111	-43,126
1.000		-26,119	0.0	0.0	-1,770	-10,241	-14,108	-58,129

MEMBER 206

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-490,144	0.0	0.0	79,309	171,398	-239,438	-740,850
0.250		-490,144	0.0	0.0	80,669	3,089	-406,386	-573,902
0.500		-490,144	0.0	0.0	82,029	-165,219	-242,896	-737,393
0.750		-490,144	0.0	0.0	83,390	-333,527	-73,228	-907,061
1.000		-490,144	0.0	0.0	84,750	-501,836	96,441	-1076,730

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	0,045	0.0	0.0	-191,614	9,027	200,686	-200,597
0.250		0,045	0.0	0.0	-77,031	-39,663	116,739	-116,650
0.500		0,045	0.0	0.0	37,552	-88,353	125,949	-125,860
0.750		0,045	0.0	0.0	152,134	-137,044	289,222	-289,133
1.000		0,045	0.0	0.0	266,717	-185,734	452,495	-452,406

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-310,436	0.0	0.0	2,356	-30,581	-277,499	-343,373
0.250		-310,436	0.0	0.0	2,501	-23,855	-284,080	-336,792
0.500		-310,436	0.0	0.0	2,647	-17,129	-290,660	-330,212
0.750		-310,436	0.0	0.0	2,792	-10,403	-297,241	-323,631

1.000	-310.436	0.0	0.0	2.937	-3.677	-305.621	-317.051

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0	FR	-65.035	0.0	0.0	2.894	15.043	-47.099	-82.972
0.250		-65.035	0.0	0.0	2.886	8.810	-53.339	-76.731
0.500		-65.035	0.0	0.0	2.878	2.577	-59.580	-70.490
0.750		-65.035	0.0	0.0	2.870	-3.656	-58.509	-71.562
1.000		-65.035	0.0	0.0	2.863	-9.889	-52.284	-77.787

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0	FR	-44.177	0.0	0.0	-12.129	-13.210	-18.838	-69.516
0.250		-44.177	0.0	0.0	-11.887	-11.384	-20.906	-67.449
0.500		-44.177	0.0	0.0	-11.645	-9.558	-22.973	-65.381
0.750		-44.177	0.0	0.0	-11.404	-7.733	-25.041	-63.314
1.000		-44.177	0.0	0.0	-11.162	-5.907	-27.108	-61.246

MEMBER 207

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL STRESS	MIN NORMAL STRESS
0.0	FR	216.568	0.0	0.0	33.266	-138.122	387.956	45.181
0.250		216.568	0.0	0.0	38.444	-158.651	413.663	19.473
0.500		216.568	0.0	0.0	43.622	-179.180	439.370	-6.234
0.750		216.568	0.0	0.0	48.801	-199.709	465.078	-31.941
1.000		216.568	0.0	0.0	53.979	-220.238	490.785	-57.649

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-374,556	0.0	0.0	75,033	-64,900	-234,623	-514,488
0.250		-374,556	0.0	0.0	115,024	-50,260	-209,271	-539,840
0.500		-374,556	0.0	0.0	155,016	-35,621	-183,919	-565,192
0.750		-374,556	0.0	0.0	195,007	-20,981	-158,567	-590,545
1.000		-374,556	0.0	0.0	234,999	-6,342	-133,215	-615,897

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-358,353	0.0	0.0	-1,687	-7,112	-349,595	-367,111
0.250		-358,353	0.0	0.0	-1,981	-6,054	-350,318	-366,388
0.500		-358,353	0.0	0.0	-2,315	-4,997	-351,041	-365,666
0.750		-358,353	0.0	0.0	-2,649	-3,940	-351,764	-364,942
1.000		-358,353	0.0	0.0	-2,984	-2,883	-352,487	-364,219

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-29,718	0.0	0.0	-2,756	3,258	-23,704	-35,733
0.250		-29,718	0.0	0.0	-2,618	3,261	-23,839	-35,598
0.500		-29,718	0.0	0.0	-2,479	3,264	-23,975	-35,462
0.750		-29,718	0.0	0.0	-2,341	3,267	-24,110	-35,327
1.000		-29,718	0.0	0.0	-2,203	3,270	-24,246	-35,191

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-54,804	0.0	0.0	-1,370	2,096	-51,338	-58,270
0.250		-54,804	0.0	0.0	-0,841	2,433	-51,530	-58,078
0.500		-54,804	0.0	0.0	-0,311	2,771	-51,722	-57,886
0.750		-54,804	0.0	0.0	0,219	3,109	-51,475	-58,132
1.000		-54,804	0.0	0.0	0,749	3,447	-50,607	-59,000

MEMBER 208

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	216,544	0.0	0.0	218,018	-313,041	747,603	-314,516
0.250		216,544	0.0	0.0	97,567	-271,598	585,708	-152,621
0.500		216,544	0.0	0.0	-22,884	-230,154	469,582	-36,495
0.750		216,544	0.0	0.0	-143,336	-188,710	548,589	-115,502
1.000		216,544	0.0	0.0	-263,787	-147,266	627,597	-194,510

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	374,526	0.0	0.0	192,247	-37,658	604,450	144,622
0.250		374,526	0.0	0.0	166,973	-11,319	552,818	196,234
0.500		374,526	0.0	0.0	141,699	15,019	531,244	217,808
0.750		374,526	0.0	0.0	116,426	41,357	532,309	216,743
1.000		374,526	0.0	0.0	91,152	67,696	535,374	215,678

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-358,725	0.0	0.0	8,138	-17,030	-335,555	-383,890
0.250		-358,725	0.0	0.0	5,540	-14,138	-339,044	-378,401
0.500		-358,725	0.0	0.0	2,942	-11,247	-344,533	-372,912
0.750		-358,725	0.0	0.0	0,345	-8,356	-350,022	-367,423
1.000		-358,725	0.0	0.0	-2,253	-5,464	-351,006	-366,440

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-29.719	0.0	0.0	5.420	-1.153	-23.146	-36.292
0.250		-29.719	0.0	0.0	3.781	-0.306	-25.632	-33.806
0.500		-29.719	0.0	0.0	2.142	0.541	-27.037	-32.401
0.750		-29.719	0.0	0.0	0.503	1.387	-27.829	-31.609
1.000		-29.719	0.0	0.0	-1.136	2.234	-26.349	-33.089

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-22.998	0.0	0.0	0.639	-5.224	-17.135	-28.862
0.250		-22.998	0.0	0.0	0.062	-4.602	-18.335	-27.662
0.500		-22.998	0.0	0.0	-0.516	-3.979	-18.504	-27.493
0.750		-22.998	0.0	0.0	-1.093	-3.356	-18.549	-27.447
1.000		-22.998	0.0	0.0	-1.670	-2.733	-18.595	-27.402

MEMBER 209

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-433.067	0.0	0.0	32.434	-447.119	46.486	-912.621
0.250		-433.067	0.0	0.0	33.791	-312.004	-87.272	-778.863
0.500		-433.067	0.0	0.0	35.149	-176.889	-221.029	-645.105
0.750		-433.067	0.0	0.0	36.506	-41.774	-354.787	-511.348
1.000		-433.067	0.0	0.0	37.864	93.341	-501.863	-564.272

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0.060	0.0	0.0	161.287	-165.483	326.829	-326.710

0.250	0.060	0.0	0.0	192.140	-83.442	275.640	-275.521
0.500	0.060	0.0	0.0	222.992	-1.400	224.452	-224.333
0.750	0.060	0.0	0.0	253.845	80.641	334.545	-334.426
1.000	0.060	0.0	0.0	284.697	162.682	447.439	-447.320

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-347.481	0.0	0.0	0.749	-3.276	-343.455	-351.506
0.250		-347.481	0.0	0.0	0.894	-2.432	-344.155	-350.807
0.500		-347.481	0.0	0.0	1.039	-1.587	-344.854	-350.107
0.750		-347.481	0.0	0.0	1.184	-0.743	-345.554	-349.408
1.000		-347.481	0.0	0.0	1.329	0.102	-346.049	-348.912

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-57.261	0.0	0.0	1.749	-8.811	-46.701	-67.820
0.250		-57.261	0.0	0.0	1.741	-5.555	-49.965	-64.557
0.500		-57.261	0.0	0.0	1.733	-2.299	-53.228	-61.293
0.750		-57.261	0.0	0.0	1.725	0.956	-54.579	-59.942
1.000		-57.261	0.0	0.0	1.717	4.212	-51.331	-63.190

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-38.897	0.0	0.0	-3.316	-5.263	-30.318	-47.476
0.250		-38.897	0.0	0.0	-3.075	-2.669	-33.153	-44.641
0.500		-38.897	0.0	0.0	-2.834	-0.075	-35.988	-41.806
0.750		-38.897	0.0	0.0	-2.593	2.519	-33.784	-44.010
1.000		-38.897	0.0	0.0	-2.352	5.113	-31.431	-46.362

MEMBER 210

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	217,232	0,0	0,0	87,058	-276,485	582,775	-148,311
0.250		217,232	0,0	0,0	100,481	-215,182	532,895	-98,431
0.500		217,232	0,0	0,0	113,904	-151,878	483,015	-48,551
0.750		217,232	0,0	0,0	127,328	-88,575	433,135	1,330
1.000		217,232	0,0	0,0	140,751	-25,271	383,254	51,210

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-375,696	0,0	0,0	260,533	-51,299	-63,864	-687,529
0.250		-375,696	0,0	0,0	141,398	-81,869	-152,429	-596,963
0.500		-375,696	0,0	0,0	22,262	-112,459	-240,995	-510,396
0.750		-375,696	0,0	0,0	-96,873	-143,009	-135,814	-615,579
1.000		-375,696	0,0	0,0	-216,009	-173,580	13,692	-765,284

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-447,306	0,0	0,0	-2,004	-4,608	-440,694	-453,917
0.250		-447,306	0,0	0,0	1,748	-1,741	-443,621	-450,791
0.500		-447,306	0,0	0,0	5,491	1,126	-440,689	-453,923
0.750		-447,306	0,0	0,0	9,238	5,992	-436,075	-460,537
1.000		-447,306	0,0	0,0	12,986	8,859	-427,461	-467,151

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-29,718	0,0	0,0	-1,019	1,188	-27,511	-31,926
0.250		-29,718	0,0	0,0	-0,455	1,358	-27,905	-31,532
0.500		-29,718	0,0	0,0	0,109	1,528	-28,082	-31,355

0.750	-29.718	0.0	0.0	0.673	1.698	-27.348	-52.089
1.000	-29.718	0.0	0.0	1.237	1.868	-26.613	-52.823

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-54.803	0.0	0.0	1.682	1.806	-51.316	-58.291
0.250		-54.803	0.0	0.0	0.651	1.144	-53.008	-56.599
0.500		-54.803	0.0	0.0	-0.380	0.483	-53.941	-55.666
0.750		-54.803	0.0	0.0	-1.411	-0.178	-53.214	-56.393
1.000		-54.803	0.0	0.0	-2.442	-0.840	-51.522	-58.085

MEMBER 211

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	217.231	0.0	0.0	-242.193	-109.291	568.714	-134.252
0.250		217.231	0.0	0.0	-216.964	-71.984	506.179	-71.717
0.500		217.231	0.0	0.0	-191.736	-34.677	443.645	-9.182
0.750		217.231	0.0	0.0	-166.508	2.630	380.369	48.094
1.000		217.231	0.0	0.0	-141.280	39.937	318.448	36.015

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	375.682	0.0	0.0	143.565	159.957	679.203	72.160
0.250		375.682	0.0	0.0	69.468	169.384	614.534	136.830
0.500		375.682	0.0	0.0	-4.629	178.812	559.123	192.240
0.750		375.682	0.0	0.0	-78.727	188.240	642.648	108.715
1.000		375.682	0.0	0.0	-152.824	197.668	726.173	25.190

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-447,675	0.0	0.0	-1,103	-3,441	-443,131	-452,219
0.250		-447,675	0.0	0.0	-4,309	-3,691	-442,675	-452,675
0.500		-447,675	0.0	0.0	-7,515	2,060	-438,100	-457,250
0.750		-447,675	0.0	0.0	-10,721	4,810	-432,144	-463,207
1.000		-447,675	0.0	0.0	-13,927	7,561	-426,187	-469,163

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-29,719	0.0	0.0	-0.933	2,593	-26,194	-33,244
0.250		-29,719	0.0	0.0	-1,166	2,564	-25,984	-33,449
0.500		-29,719	0.0	0.0	-1,399	2,536	-25,783	-33,654
0.750		-29,719	0.0	0.0	-1,632	2,508	-25,576	-33,859
1.000		-29,719	0.0	0.0	-1,866	2,480	-25,373	-34,064

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-22,998	0.0	0.0	-0.597	-0.646	-21,555	-24,441
0.250		-22,998	0.0	0.0	-1,236	-0.196	-21,567	-24,430
0.500		-22,998	0.0	0.0	-1,874	0.454	-20,670	-25,327
0.750		-22,998	0.0	0.0	-2,513	1,105	-19,361	-26,615
1.000		-22,998	0.0	0.0	-3,151	1,755	-18,092	-27,904

MEMBER 212

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-434,424	0.0	0.0	-50,777	93,541	-290,306	-578,542
0.250		-434,424	0.0	0.0	-49,225	136,994	-248,204	-620,643
0.500		-434,424	0.0	0.0	-47,674	180,647	-206,102	-662,745
0.750		-434,424	0.0	0.0	-46,123	224,301	-164,001	-704,847
1.000		-434,424	0.0	0.0	-44,571	267,954	-121,899	-746,949

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0,040	0.0	0.0	278,052	162,682	440,774	-440,694
0.250		0,040	0.0	0.0	231,161	110,136	341,336	-341,257
0.500		0,040	0.0	0.0	184,270	57,590	241,899	-241,820
0.750		0,040	0.0	0.0	137,379	5,044	142,462	-142,382
1.000		0,040	0.0	0.0	90,488	-47,503	138,030	-137,951

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-436,430	0.0	0.0	-0,569	0,102	-435,959	-436,901
0.250		-436,430	0.0	0.0	-0,203	-1,876	-434,351	-438,509
0.500		-436,430	0.0	0.0	-0,037	-3,854	-432,538	-440,321
0.750		-436,430	0.0	0.0	0,128	-5,832	-430,469	-442,390
1.000		-436,430	0.0	0.0	0,294	-7,810	-428,325	-444,534

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-57,261	0.0	0.0	-0,892	4,212	-52,157	-62,366
0.250		-57,261	0.0	0.0	-0,901	3,691	-52,669	-61,853
0.500		-57,261	0.0	0.0	-0,910	3,169	-53,182	-61,341
0.750		-57,261	0.0	0.0	-0,919	2,648	-53,694	-60,828
1.000		-57,261	0.0	0.0	-0,928	2,127	-54,206	-60,316

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-38.898	0.0	0.0	-1.881	5.113	-31.903	-45.892
0.250		-38.898	0.0	0.0	-1.605	3.350	-35.962	-43.835
0.500		-38.898	0.0	0.0	-1.330	1.586	-36.022	-41.773
0.750		-38.898	0.0	0.0	-1.054	-0.238	-37.606	-40.189
1.000		-38.898	0.0	0.0	-0.779	-2.021	-36.098	-41.697

MEMBER 213

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	247.213	0.0	0.0	281.572	-245.883	774.667	-280.241
0.250		247.213	0.0	0.0	27.470	-271.655	546.538	-51.911
0.500		247.213	0.0	0.0	-226.631	-297.426	771.271	-276.844
0.750		247.213	0.0	0.0	-480.733	-323.198	1051.144	-556.717
1.000		247.213	0.0	0.0	-734.834	-348.970	1331.017	-836.591

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-427.550	0.0	0.0	-164.547	-331.909	68.906	-924.007
0.250		-427.550	0.0	0.0	174.668	-64.217	-188.666	-666.435
0.500		-427.550	0.0	0.0	513.883	203.476	289.809	-1144.910
0.750		-427.550	0.0	0.0	853.098	471.169	896.717	-1751.818
1.000		-427.550	0.0	0.0	1192.314	738.862	1503.626	-2358.727

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
	STRESS						

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-609,352	0.0	0.0	15,801	5,540	-588,010	-630,693
0.250		-609,352	0.0	0.0	-8,750	-6,401	-594,200	-624,503
0.500		-609,352	0.0	0.0	-33,302	-18,343	-557,707	-660,996
0.750		-609,352	0.0	0.0	-57,853	-30,285	-521,214	-697,489
1.000		-609,352	0.0	0.0	-82,404	-42,226	-484,721	-733,982

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-33,752	0.0	0.0	1,649	1,637	-30,466	-37,039
0.250		-33,752	0.0	0.0	-1,885	-0,480	-31,387	-36,118
0.500		-33,752	0.0	0.0	-5,420	-2,597	-25,735	-41,770
0.750		-33,752	0.0	0.0	-8,955	-4,714	-20,083	-47,422
1.000		-33,752	0.0	0.0	-12,490	-6,831	-14,431	-53,074

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-62,243	0.0	0.0	-2,648	-1,106	-58,489	-65,997
0.250		-62,243	0.0	0.0	0,330	0,612	-61,302	-63,185
0.500		-62,243	0.0	0.0	3,308	2,330	-56,606	-67,881
0.750		-62,243	0.0	0.0	6,286	4,048	-51,910	-72,577
1.000		-62,243	0.0	0.0	9,263	5,766	-47,214	-77,273

MEMBER 214

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	247,210	0.0	0.0	-297,026	-198,853	743,088	-248,669
0.250		247,210	0.0	0.0	-37,004	-232,519	516,732	-22,313
0.500		247,210	0.0	0.0	223,019	-266,185	736,413	-241,994
0.750		247,210	0.0	0.0	483,041	-299,851	1030,102	-535,682

1.000	247,210	0.0	0.0	743,063	-333,517	1325,790	-829,371

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	427,529	0.0	0.0	-117,131	317,582	862,242	-7,185
0.250		427,529	0.0	0.0	213,230	59,910	700,669	154,388
0.500		427,529	0.0	0.0	543,592	-197,761	1168,882	-313,824
0.750		427,529	0.0	0.0	873,954	-455,433	1756,916	-901,858
1.000		427,529	0.0	0.0	1204,316	-713,105	2344,949	-1489,892

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-609,771	0.0	0.0	-18,561	3,330	-587,880	-631,662
0.250		-609,771	0.0	0.0	6,788	-8,849	-594,134	-625,407
0.500		-609,771	0.0	0.0	32,136	-21,028	-556,606	-662,935
0.750		-609,771	0.0	0.0	57,485	-33,207	-519,079	-700,463
1.000		-609,771	0.0	0.0	82,834	-45,386	-481,551	-737,991

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-33,753	0.0	0.0	-2,406	2,234	-29,113	-38,393
0.250		-33,753	0.0	0.0	1,524	-0,005	-32,423	-35,082
0.500		-33,753	0.0	0.0	5,054	-2,245	-26,454	-41,052
0.750		-33,753	0.0	0.0	8,584	-4,484	-20,484	-47,021
1.000		-33,753	0.0	0.0	12,514	-6,724	-14,515	-52,991

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-26,120	0.0	0.0	-3,977	1,194	-20,948	-31,291
0.250		-26,120	0.0	0.0	1,603	-1,607	-22,910	-29,329

0,500	-26,120	0,0	0,0	7,183	-4,408	-14,528	-37,711
0,750	-26,120	0,0	0,0	12,763	-7,210	-6,147	-46,092
1,000	-26,120	0,0	0,0	18,343	-10,011	2,234	-54,473

MEMBER 215

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0 FR	-494,387	0,0	0,0	-8,290	300,744	-185,353	-803,421
0,250	-494,387	0,0	0,0	-6,549	-178,852	-308,987	-679,787
0,500	-494,387	0,0	0,0	-4,807	-658,447	168,867	-1157,641
0,750	-494,387	0,0	0,0	-3,066	-1138,045	646,722	-1635,496
1,000	-494,387	0,0	0,0	-1,325	-1617,639	1124,577	-2113,351

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0 FR	0,053	0,0	0,0	369,634	-53,316	423,003	-422,896
0,250	0,053	0,0	0,0	260,342	-38,535	298,930	-298,824
0,500	0,053	0,0	0,0	151,050	-23,755	174,858	-174,752
0,750	0,053	0,0	0,0	41,759	-8,974	50,786	-50,679
1,000	0,053	0,0	0,0	-67,533	5,806	73,393	-75,286

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE	STRESS						
FROM START	AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0,0 FR	-596,995	0,0	0,0	1,118	-8,766	-587,110	-606,879
0,250	-596,995	0,0	0,0	1,304	7,225	-588,466	-605,523
0,500	-596,995	0,0	0,0	1,490	23,215	-572,289	-621,700
0,750	-596,995	0,0	0,0	1,676	39,206	-556,112	-637,877
1,000	-596,995	0,0	0,0	1,862	55,197	-539,935	-654,054

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-65,035	0.0	0.0	-0.041	2,387	-62,606	-67,463
0.250		-65,035	0.0	0.0	-0.051	-1,514	-63,469	-66,600
0.500		-65,035	0.0	0.0	-0.061	-5,415	-59,559	-70,511
0.750		-65,035	0.0	0.0	-0.071	-9,316	-55,648	-74,422
1.000		-65,035	0.0	0.0	-0.082	-13,217	-51,737	-78,333

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-44,177	0.0	0.0	-1,166	-2,269	-40,743	-47,612
0.250		-44,177	0.0	0.0	-0.856	-0.400	-42,921	-45,434
0.500		-44,177	0.0	0.0	-0.547	1,468	-42,162	-46,193
0.750		-44,177	0.0	0.0	-0.238	3,337	-40,603	-47,752
1.000		-44,177	0.0	0.0	0.072	5,206	-38,900	-49,455

MEMBER 216

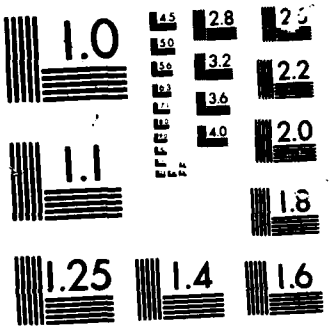
LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	400,957	0.0	0.0	-1120,523	-1092,204	2613,683	-1811,770
0.250		400,957	0.0	0.0	-840,392	-819,153	2060,502	-1258,589
0.500		400,957	0.0	0.0	-560,261	-546,102	1507,320	-705,407
0.750		400,957	0.0	0.0	-280,131	-273,051	954,138	-152,225
1.000		400,957	0.0	0.0	-0.000	-0.000	400,957	400,957

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		STRESS

AD-A165 616 NATURAL FREQUENCY AND EARTHQUAKE ANALYSIS EAST COAST 7/7
AIR COMBAT MANEUVERI..(U) CREST ENGINEERING INC TULSA
OK SEP 76 27-771-99 CHES/NAVFAC-FPO-7611
UNCLASSIFIED N62477-76-C-0179 F/G 13/13 NL



MICROCOPY RESOLUTION TEST CHART

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-693,454	0.0	0.0	2394.364	1080.078	2780.987	-4167.895
0.250		-693,454	0.0	0.0	1795.773	810.059	1912.377	-3299.285
0.500		-693,454	0.0	0.0	1197.182	540.039	1043.767	-2430.675
0.750		-693,454	0.0	0.0	598.591	270.020	175.156	-1562.065
1.000		-693,454	0.0	0.0	0.000	0.000	-693,454	-693,454

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-1087,356	0.0	0.0	-149,528	-86,233	-851,594	-1323,118
0.250		-1087,356	0.0	0.0	-112,146	-64,675	-910,535	-1264,177
0.500		-1087,356	0.0	0.0	-74,764	-43,117	-969,475	-1205,237
0.750		-1087,356	0.0	0.0	-37,382	-21,558	-1028,416	-1146,296
1.000		-1087,356	0.0	0.0	0.000	0.000	-1087,356	-1087,356

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-54,736	0.0	0.0	-23,392	-12,593	-18,751	-90,721
0.250		-54,736	0.0	0.0	-17,544	-9,445	-27,747	-81,724
0.500		-54,736	0.0	0.0	-11,696	-6,296	-36,743	-72,728
0.750		-54,736	0.0	0.0	-5,848	-3,148	-45,740	-63,732
1.000		-54,736	0.0	0.0	-0.000	0.000	-54,736	-54,736

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE /---------- STRESS ----------/

FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-100,936	0.0	0.0	17,475	10,424	-73,037	-128,835
0.250		-100,936	0.0	0.0	13,106	7,818	-80,012	-121,860
0.500		-100,936	0.0	0.0	8,737	5,212	-86,986	-114,885
0.750		-100,936	0.0	0.0	4,369	2,606	-93,961	-107,911
1.000		-100,936	0.0	0.0	0.000	0.000	-100,936	-100,936

MEMBER 217

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	400.950	0.0	0.0	1126.548	-1079.788	2607.286	-1805.387
0.250		400.950	0.0	0.0	844.911	-809.842	2055.702	-1253.803
0.500		400.950	0.0	0.0	563.274	-539.894	1504.118	-702.219
0.750		400.950	0.0	0.0	281.637	-269.947	952.534	-150.634
1.000		400.950	0.0	0.0	0.000	0.000	400.950	400.950

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	693.421	0.0	0.0	2383.155	-1091.159	4167.734	-2780.893
0.250		693.421	0.0	0.0	1787.367	-818.369	3299.157	-1912.315
0.500		693.421	0.0	0.0	1191.578	-545.580	2430.578	-1043.736
0.750		693.421	0.0	0.0	595.789	-272.790	1562.000	-175.158
1.000		693.421	0.0	0.0	0.000	0.000	693.421	693.421

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						
0.0	FR	-1088.036	0.0	0.0	152.345	-88.583	-847.108	-1328.964
0.250		-1088.036	0.0	0.0	114.259	-66.437	-907.340	-1268.732
0.500		-1088.036	0.0	0.0	76.172	-44.291	-967.572	-1208.500
0.750		-1088.036	0.0	0.0	38.086	-22.146	-1027.804	-1148.268
1.000		-1088.036	0.0	0.0	0.000	0.000	-1088.036	-1088.036

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
		STRESS						

0.0	FR	-54,736	0.0	0.0	25,357	-12,533	-18,846	-90,620
0.250		-54,736	0.0	0.0	17,518	-9,400	-27,819	-81,654
0.500		-54,736	0.0	0.0	11,679	-6,266	-36,791	-72,681
0.750		-54,736	0.0	0.0	5,839	-3,133	-45,764	-63,709
1.000		-54,736	0.0	0.0	0.000	0.000	-54,736	-54,736

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-42,359	0.0	0.0	33,448	-20,048	11,137	-95,855
0.250		-42,359	0.0	0.0	25,086	-15,036	-2,237	-82,481
0.500		-42,359	0.0	0.0	16,724	-10,024	-15,611	-69,107
0.750		-42,359	0.0	0.0	8,362	-5,012	-28,985	-55,733
1.000		-42,359	0.0	0.0	0.000	0.000	-42,359	-42,359

MEMBER 218

LOADING 1 EARTHQUAKE LOADS IN Y-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-801,767	0.0	0.0	-6,088	-3018,342	2222,662	-3826,196
0.250		-801,767	0.0	0.0	-4,566	-2263,756	1466,555	-3070,089
0.500		-801,767	0.0	0.0	-3,044	-1509,170	710,447	-2313,981
0.750		-801,767	0.0	0.0	-1,522	-754,585	-45,660	-1557,874
1.000		-801,767	0.0	0.0	0.000	-0.000	-801,767	-801,767

LOADING 2 EARTHQUAKE LOADS IN X-DIRECTION

DISTANCE		STRESS						
FROM START		AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	0,083	0.0	0.0	420,927	10,834	431,844	-431,677
0.250		0,083	0.0	0.0	315,695	8,126	323,904	-325,737
0.500		0,083	0.0	0.0	210,463	5,417	215,964	-215,797

0.750	0.083	0.0	0.0	105.232	2.709	108.023	-107.857
1.000	0.083	0.0	0.0	0.000	-0.000	0.083	0.083

LOADING 3 GRAVITY AND BUOYANCY

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-1067.313	0.0	0.0	-0.650	102.992	-963.671	-1170.955
0.250		-1067.313	0.0	0.0	-0.488	77.244	-989.582	-1145.045
0.500		-1067.313	0.0	0.0	-0.325	51.496	-1015.492	-1119.134
0.750		-1067.313	0.0	0.0	-0.163	25.748	-1041.403	-1093.224
1.000		-1067.313	0.0	0.0	-0.000	0.000	-1067.313	-1067.313

LOADING 4 TRANSIENT LIVE LOADS -- VIBRATING IN Y-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-105.461	0.0	0.0	0.035	-24.661	-80.766	-130.157
0.250		-105.461	0.0	0.0	0.026	-16.496	-86.940	-125.983
0.500		-105.461	0.0	0.0	0.018	-12.330	-93.114	-117.809
0.750		-105.461	0.0	0.0	0.009	-6.165	-99.287	-111.635
1.000		-105.461	0.0	0.0	0.000	-0.000	-105.461	-105.461

LOADING 5 TRANSIENT LIVE LOADS -- VIBRATING IN X-DIRECTION

DISTANCE FROM START		STRESS AXIAL	Y SHEAR	Z SHEAR	Y BENDING	Z BENDING	MAX NORMAL	MIN NORMAL
0.0	FR	-71.641	0.0	0.0	-1.081	9.713	-60.847	-82.435
0.250		-71.641	0.0	0.0	-0.811	7.285	-63.545	-79.737
0.500		-71.641	0.0	0.0	-0.541	4.857	-66.244	-77.038
0.750		-71.641	0.0	0.0	-0.270	2.428	-68.943	-74.340
1.000		-71.641	0.0	0.0	0.000	-0.000	-71.641	-71.641

ASP JOB NO. = 0038 DATE = 76.190

//LEC5655 JOB (0004270500277101PCETENG96),'CHERN ',PRTY=4,CLASS=D,C0038

ELAPSED TIME ON MAIN = A = 014.84, START TIME = 16.58.55

DDNAME = SYSMSG PRINTED ON RM027PR1, LINES = 000125
DDNAME = FT06F001 PRINTED ON RM027PR1, LINES = 018846
LINES OUTPUT FOR THIS JOB = 018971

CARDS FROM MAIN FOR THIS JOB = NONE

END
FILMED
4-86
DTIC